L6

63 CHLORINATED ISOCYANURATE (CHLORINATED(W)ISOCYANURATE)

=> s trichlorocyanurate or dichlorocyanurate

6 TRICHLOROCYANURATE

1 TRICHLOROCYANURATES

7 TRICHLOROCYANURATE

(TRICHLOROCYANURATE OR TRICHLOROCYANURATES)

118 DICHLOROCYANURATE

9 DICHLOROCYANURATES

120 DICHLOROCYANURATE

(DICHLOROCYANURATE OR DICHLOROCYANURATES)

127 TRICHLOROCYANURATE OR DICHLOROCYANURATE

=> s L6 and polymer

992250 POLYMER

821725 POLYMERS

1345155 POLYMER

(POLYMER OR POLYMERS)

L7 19 L6 AND POLYMER

=> d 1-19 L7

L7 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:672962 CAPLUS

DN 131:288073

TI Toilet cleaning block compositions containing bleaching agents and heavy metal ions and their manufacture

IN Bolzoni, Giuseppe Vincenzo; Morris, Ronald Meredith; Oliva, Marco; Tummiolo, Roberto

PA Unilever PLC, UK; Unilever N. V.; Hindustan Lever Limited

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2
DT Patent

LA English

FAN. CNT 1

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	PATENT	NO.		KIN)	DATE			APPL	ICAT	ION	NO.		D.	ATE	
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		JP, KE														
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PKAI	EP 1998	_				1998										
	WO 1999					1999										
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ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:672960 CAPLUS

DN 131:288072

TI Toilet cleaning block compositions containing bleaching agents

IN Bolzoni, Giuseppe Vincenzo; Morris, Ronald Meredith; Oliva, Marco; Tummiolo, Roberto

PA Unilever PLC, UK; Unilever N.V.; Hindustan Lever Limited

SO PCT Int. Appl., 19 pp. CODEN: PIXXD2

DT Patent

LA English

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            JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
            MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
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PRAI EP 1998-302785 A
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    WO 1999-EP1899
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             THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
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             ALL CITATIONS AVAILABLE IN THE RE FORMAT
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    ANSWER 3 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ΑN
    1999:234360 CAPLUS
DN
    130:241688
TΙ
    Organic fluid gelling compound
IN
    Vallieres, Lucien
PΑ
    Can.
SO
    Can. Pat. Appl., 17 pp.
    CODEN: CPXXEB
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    CA 2188838
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    ANSWER 4 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ΑN
    1997:85573 CAPLUS
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    126:148478
TΙ
    Organic fluid gelifying compounds
ΤN
    Vallieres, Lucien
PΑ
SO
    U.S., 5 pp., Cont.-in-part of U.S. Ser. No. 216,015, abandoned.
    CODEN: USXXAM
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            IE, SI, LT, LV, FI, RO
PRAI US 1994-216015
                        B2
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    ANSWER 5 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN .
AN
    1996:590882 CAPLUS
DN
    125:269850
TТ
    Method for immobilizing dye on substrates
ΙN
    Gibboni, David J.; Law, Wai T.
PΑ
    Actimed Laboratories, Inc., USA
SO
    U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 833, 423.
    CODEN: USXXAM
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    English
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FAN.CNT 1

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    US 5556743
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    ANSWER 6 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
    1996:476833 CAPLUS
AN
DN
    Metasilicate-rich automatic dishwashing compositions exhibiting good glass
    cleaning properties
    Caravajal, Gregory Stephen; Marshall, Janet Layne
IN
    Procter and Gamble Company, USA
PA
    PCT Int. Appl., 28 pp.
SO
    CODEN: PIXXD2
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    English
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    WO 9617047
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                            19971230
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L7
    ANSWER 7 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
AN
    1994:136085 CAPLUS
DN
    120:136085
TΤ
    Polyphenylene ether-polyester copolymers and compatibilized molding
    compositions thereof
IN
    Yates, John B., III; Angeli, Stephen R.; Smith, Gary F.; Whalen, David
PA
    General Electric Co., USA
    Can. Pat. Appl., 48 pp.
    CODEN: CPXXEB
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LΑ
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    CA 2082735
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L7
    ANSWER 8 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
AN
    1991:144806 CAPLUS
DN
    114:144806
    Compositions comprising polyphenylene ethers and reactive graft
TI
    polymers
ΙN
    Campbell, John Robert
PΑ
    General Electric Co., USA
SO
    Eur. Pat. Appl., 13 pp.
    CODEN: EPXXDW
DT
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LA
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FAN.CNT 1
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    EP 395993
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        R: DE, ES, FR, GB, IT, NL
    US 4980415 .
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                              19901225
                                          US 1989-345868
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    JP 03033151
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PRAI US 1989-345868
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L7
    ANSWER 9 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
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1990:632274 CAPLUS ΑN

DN 113:232274

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ΤI
    Polyphenylene ether copolymers from epoxytriazine-capped polyphenylene
ΙN
    Brown, Sterling Bruce; Trent, John Spencer; Golba, Joseph Chester, Jr.;
    Lowry, Richard Charles
PΑ
    General Electric Co., USA
SO
    Eur. Pat. Appl., 15 pp.
   CODEN: EPXXDW
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LA
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FAN.CNT 1
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    EP 374517
PΙ
                      A2
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       R: DE, ES, FR, GB, IT, NL
    US 5041504 A
                           19910820
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    ES 2061898
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                            19941216
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    JP 02242824
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                          19900927
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                                                           19891219
    JP 06018887
US 5100961
                      B4 19940316
                      Α
                            19920331
                                       US 1991-676001
                                                           19910318
PRAI US 1988-286184 A US 1989-373079 A
                            19881219
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L7
    ANSWER 10 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ΑN
    1990:236429 CAPLUS
DN
    112:236429
ΤI
    Compositions comprising polyphenylene ether-polyester copolymers from
    epoxytriazine-capped polyphenylene ethers
ΙN
    Brown, Sterling Bruce; Lowry, Richard Charles
PΑ
    General Electric Co., USA
SO
    Eur. Pat. Appl., 22 pp.
    CODEN: EPXXDW
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LA
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FAN.CNT 2
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    EP 347828 A2
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                            19891227
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       R: DE, ES, FR, GB, IT, NL
    US 5089566 A
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                                                            19890620
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L7
    ANSWER 11 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
AN
    1988:495185 CAPLUS
DN
    109:95185
TΙ
    Thickened aqueous dishwashing compositions
IN
    Fuchs, Albert James; Roselle, Brian Joseph
PA
    Procter and Gamble Co., USA
SO
    Eur. Pat. Appl., 12 pp.
    CODEN: EPXXDW
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FAN.CNT 1
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    EP 264975
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                      A1 19880427 EP 1987-201496
PΙ
                                                            19870806
       R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE
    FI 8703551 A 19880219 FI 1987-3551
                                                            19870817
    AU 8777109
                      A1
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    DK 8704298
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                                       DK 1987-4298
                                                            19870818
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IN

PΑ

Purex Corp., Ltd.

Shields, Gordon G.; Patterson, Charles B.

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L7
    ANSWER 12 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
AN
    1986:610385 CAPLUS
DN
    105:210385
    Shrinkproofing of wool
TΙ
IN
    Inoe, Jujiro
PA
    Nakajima Spinning Co., Ltd., Japan
SO
    Jpn. Kokai Tokkyo Koho, 5 pp.
    CODEN: JKXXAF
DT
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LA
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FAN.CNT 1
    PATENT NO.
                     KIND DATE
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PΤ
    JP 61179373
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PRAI JP 1985-18980
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1.7
    ANSWER 13 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ΑN
    1975:141559 CAPLUS
DN
    82:141559
ΤI
    Felting and making nonshrinking textile goods containing keratin fibers
ΙN
    Bille, Heinz; Siemenc, Toni
PΑ
    BASF A.-G.
SO
    Ger. Offen., 15 pp.
    CODEN: GWXXBX
DT
    Patent
LA
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FAN.CNT 1
    PATENT NO.
               KIND DATE APPLICATION NO.
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PT
    DE 2326463
                      A1 19741219
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PRAI DE 1973-2326463
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    ANSWER 14 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ΑN
    1975:74286 CAPLUS
    82:74286
DN
TΙ
    Effect of a change in the superamolecular structure of rayon fiber on the
    coloristic effectiveness of printing staple textiles with vat dyes
ΑU
    Lebedeva, V. I.; Mel'nikov, B. N.; Panina, Z. N.
    Ivanov. Khim.-Tekhnol. Inst., Ivanovo, USSR
CS
SO
    Izvestiya Vysshikh Uchebnykh Zavedenii, Tekhnologiya Tekstil'noi
    Promyshlennosti (1973), (5), 69-73
    CODEN: IVTTAF; ISSN: 0021-3497
DT
    Journal
LA
    Russian
L7
    ANSWER 15 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ΑN
    1971:465256 CAPLUS
DN
    75:65256
TΙ
    Continuous antifelting of wool-containing textiles
IN
    Reincke, Klaus
PΑ
    Badische Anilin- & Soda-Fabrik AG
SO
    Ger. Offen., 8 pp.
    CODEN: GWXXBX
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L7
    ANSWER 16 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
AN
    1968:420638 CAPLUS
DN
    69:20638
TΤ
    Synthetic resin binders for detergent beads
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CODEN: USXXAM
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LA
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    US 3380922
                      A 19680430 US 1965-489761
PΤ
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PRAI US 1965-489761
                      Α
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L7
    ANSWER 17 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
AN
    1967:76869 CAPLUS
    66:76869
DN
ΤI
    Black dyeing of synthetic fibers
PΑ
    Farbenfabriken Bayer A.-G.
SO
    Neth. Appl., 8 pp.
    CODEN: NAXXAN
DT
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LA
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    NL 6603441
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    FR 1472844
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    GB 1066406
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PRAI DD
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   ANSWER 18 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
L7
AN 1965:464409 CAPLUS
DN 63:64409
OREF 63:11880a-c
TI Water-soluble bleaching compositions
IN Pickin, John H.
PA Colgate-Palmolive Co.
SO 25 pp.
DT Patent
LA
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FAN.CNT 1
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PΙ
    BE 623266
                            19630201
PRAI US
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    ANSWER 19 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
AN
   1964:24232 CAPLUS
DN
    60:24232
OREF 60:4346g-h,4347a
    Dry bleach compositions prepared by fluidized-bed coating of
    polychlorocyanurates with inorganic salts
    Morgenthaler, John H.; Parks, Thomas D.
IN
PΑ
    Procter & Gamble Co.
SO
    8 pp.
DT
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LA
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L4
           3 S OXIDIZING AGENT IN SILICONE
L5
           63 S CHLORINATED ISOCYANURATE
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SO

U.S., 3 pp.

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L6
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L7
             19 S L6 AND POLYMER
=> s L3 and L6
L8
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    2004:512215 CAPLUS
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    Nanocapsules comprising a polysilsesquioxane-type silicone
ΤI
    polymer, a cosmetic or pharmaceutical composition containing them,
    and a preparation process
TN
    Richart, Pascal
PA
    L'oreal, Fr.
SO
     Fr. Demande, 20 pp.
     CODEN: FRXXBL
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LA
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    FR 2848879
                                20040625
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                                            FR 2002-16388
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    1959:20523 CAPLUS
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OREF 53:3766i,3767a-b
ΤI
    Organosilicon compounds
    Midland Silicones Ltd.
PA
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L2
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L3
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L4
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L5
             63 S CHLORINATED ISOCYANURATE
L6
            127 S TRICHLOROCYANURATE OR DICHLOROCYANURATE
L7
             19 S L6 AND POLYMER
^{\text{L8}}
              0 S L3 AND L6
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              2 S L9 AND OXIDIZING AGENT?
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     2005:14475 CAPLUS
DN
     142:117631
TΙ
     Polymer composition for encapsulation of electrode particles
ΙN
     Gozdz, Antoni S.; Loxley, Andrew L.; Pullen, Anthony E.
PA
     A123 Systems, Inc., USA
SO
     PCT Int. Appl., 47 pp.
     CODEN: PIXXD2
DΤ
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                   DATE
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PΙ
     WO 2005000956
                         Α2
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                                            WO 2004-US20393
                                                                   20040623
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
                                                                     ZM. ZW
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
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             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
     US 2005034993
                          A1
                                20050217
                                             US 2004-876179
                                                                    20040623
PRAI US 2003-480535P
                          Ρ
                                20030623
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L1ANSWER 2 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:913901 CAPLUS

ΤI Conductive polymer solid electrolytic capacitor manufactured by improved impregnation of oxidant

TN Choi, Jae Hun

PΑ Partsnic Co., Ltd., S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DTPatent

I.A Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
ΡI	KR 2002009967	Α	20020202	KR 2000-43673	20000728		
PRAI	KR 2000-43673		20000728				

ANSWER 3 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN T.1

AN 2004:654733 CAPLUS

DN 141:179731

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ΤI
    Reversible polymer hydrogel systems for medical uses
IN
    Ravi, Nathan
PΑ
    USA
SO
    U.S. Pat. Appl. Publ., 19 pp.
    CODEN: USXXCO
DT
     Patent
LA
    English
FAN.CNT 1
     PATENT NO.
                        KIND
                               DATE
                                         APPLICATION NO.
                                                               DATE
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    US 2004156880
PΙ
                         A1
                               20040812
                                          US 2003-706081
                                                                 20031113
PRAI US 2002-425764P
                         P
                               20021113
L1
    ANSWER 4 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN
    2004:620701 CAPLUS
ΑN
DN
    141:296624
ΤI
    Epoxy Polymer Surface Roughness Modeling Based on Kinetic Studies of Wet
    Chemical Treatments
ΑU
    Siau, Sam; Vervaet, Alfons; Van Calster, Andre; Swennen, Ives; Schacht,
    Etienne
CS
    ELIS-TECG/IMEC, Univ. Gent, Ghent, 9000, Belg.
SO
     Journal of the Electrochemical Society (2004), 151(8), J54-J61
    CODEN: JESOAN; ISSN: 0013-4651
PΒ
    Electrochemical Society
DT
     Journal
LA
    English
RE.CNT 27
             THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
L1
    ANSWER 5 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN
ΑN
    2004:495563 CAPLUS
DŃ
    141:27219
TТ
    Polymer granules for nonscratching and nondishing abrasives
ΙN
    Wachi, Hiroko; Kondo, Kiyotaka
PΑ
    Mitsui Chemicals Inc., Japan
SO
    Jpn. Kokai Tokkyo Koho, 7 pp.
    CODEN: JKXXAF
DT
    Patent
LA
    Japanese
FAN.CNT 1
    PATENT NO.
                      KIND
                               DATE
                                          APPLICATION NO.
                                                               DATE
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PΙ
    JP 2004168931
                       · A2
                               20040617
                                          JP 2002-337939
                                                                 20021121
PRAI JP 2002-337939
                               20021121
1.1
    ANSWER 6 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN
AN
    2003:951355 CAPLUS
DN
    140:18396
ΤI
    Conducting polymer-grafted carbon material for fuel cell applications
ΙN
    Srinivas, Bollepalli
PΑ
    Columbian Chemicals Company, USA
SO
    PCT Int. Appl., 48 pp.
    CODEN: PIXXD2
DΤ
    Patent
LA
    English
FAN.CNT 3
                                        APPLICATION NO.
    PATENT NO.
                       KIND
                              DATE
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PΙ
    WO 2003100883
                        A2
                               20031204
                                          WO 2003-US16319
                                                                 20030523
    WO 2003100883
                        Α3
                               20040506
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
            PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
            TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
            FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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- L1 ANSWER 7 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2003:571923 CAPLUS
- DN 139:245744
- TI Polymer-supported sulfinimidoyl chlorides: A convenient reagent for oxidation of alcohols
- AU Matsuo, Jun-ichi; Kawana, Asahi; Yamanaka, Hiroyuki; Kamiyama, Hiroaki
- CS Center for Basic Research, The Kitasato Institute, Tokyo, 114-0003, Japan
- SO Bulletin of the Chemical Society of Japan (2003), 76(7), 1433-1440 CODEN: BCSJA8; ISSN: 0009-2673
- PB Chemical Society of Japan
- DT Journal
- LA English
- OS CASREACT 139:245744
- RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L1 ANSWER 8 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2003:425717 CAPLUS
- DN 140:146617
- TI Novel polymer-supported reagents for organic transformations in solution
- AU Rademann, Joerg; Barth, Michael; Smerdka, Joachim; Weik, Steffen; Sorg, Gerhard; Jung, Guenther
- CS Diversity-Oriented Synthesis and Solid-Support Technology, Institute of Organic Chemistry, Tuebingen University, Tuebingen, 72076, Germany
- SO Innovation and Perspectives in Solid Phase Synthesis & Combinatorial Libraries: Peptides, Proteins and Nucleic Acids--Small Molecule Organic Chemistry Diversity, Collected Papers, International Symposium, 7th, Southampton, United Kingdom, Sept. 18-22, 2001 (2002), Meeting Date 2001, 125-128. Editor(s): Epton, Roger. Publisher: Mayflower Worldwide Ltd., Kingswinford, UK.
 - CODEN: 69DYT7; ISBN: 0-9515735-4-3
- DT Conference
- LA English
- RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L1 ANSWER 9 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2003:239777 CAPLUS
- DN 138:240145
- TI Solid fuels and small-sized lightweight hybrid propellants
- IN Hosoya, Fumio; Takishita, Yukio; Kuwahara, Takao; Onda, Toshio; Shibamoto, Hidefumi
- PA Hosoya Fireworks Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI JP 2003089590	A2	20030328	JP 2001-275799	20010911		
PRAI JP 2001-275799		20010911				

- L1 ANSWER 10 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2003:216996 CAPLUS
- DN 138:246786
- TI Synthesis of conducting polymers by vapor phase polymerization
- IN Kim, Jin Yeol; Kim, Eung Ryul
- PA Hanyang Hak Won Co., Ltd., S. Korea
- SO Jpn. Kokai Tokkyo Koho, 6 pp.
 - CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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ΡI	JP 2003082105	A2	20030319	JP 2001-280290	20010914
PRAI	JP 2001-280290		20010914		

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L12
            0 L1 AND PHARMACEUTICAL?
=> s L1 and Skin
       214877 SKIN
         9114 SKINS
       220083 SKIN
                (SKIN OR SKINS)
L13
            2 L1 AND SKIN
=> d 1-2 L13
L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
    2004:654733 CAPLUS
DN
    141:179731
    Reversible polymer hydrogel systems for medical uses
ΤI
IN
    Ravi, Nathan
PA
    USA
SO
    U.S. Pat. Appl. Publ., 19 pp.
    CODEN: USXXCO
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
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                              DATE
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                                                              DATE
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    US 2004156880
PΤ
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                                         US 2003-706081
                                                               20031113
PRAI US 2002-425764P
                       P
                              20021113
L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN
    1996:641304 CAPLUS
DN
    125:284363
TΤ
    Cosmetic melanins
IN
    Pawelek, John M.; Platt, James T.
PA
    Yale University, USA
SO
    PCT Int. Appl., 34 pp.
    CODEN: PIXXD2
DТ
    Patent
LA
    English
FAN.CNT 3
    PATENT NO.
                       KIND
                              DATE
                                       APPLICATION NO.
                                                              DATE
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    WO 9625920
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                                         WO 1996-US2163
                                                               19960214
        W: AU, BR, JP, KR, RU
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    US 5744125
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                           19980428
                                         US 1995-392589
                                                             19950223
    AU 9649265
                        A1
                              19960911
                                         AU 1996-49265
                                                               19960214
    AU 702553
                       В2
                              19990225
    EP 820275
                       A1
                              19980128
                                         EP 1996-905532
                                                               19960214
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE
    BR 9607287
                 А
                            19980623
                                         BR 1996-7287 19960214
    JP 11501341
                        Т2
                              19990202
                                         JP 1996-525766
                                                              19960214
PRAI US 1995-392589
                       Α
                              19950223
    US 1993-109286
                       B2
                              19930819
    WO 1996-US2163
                       W
                              19960214
=> s L1 and cosmetic?
        68942 COSMETIC?
L14
            1 L1 AND COSMETIC?
=> d 1 L14
L14
    ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
    1996:641304 CAPLUS
AN
DN
    125:284363
ΤI
    Cosmetic melanins
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Pawelek, John M.; Platt, James T.

PA Yale University, USA SO PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DT Patent LA English FAN.CNT 3

	PATENT NO.				KIND DATE				APPLICATION NO.					DATE				
						-									-			
ΡI	WO	9625920			A1		1996	0829		WO 1	996-	US21	63		1	9960	214	
		W: AU,	•		•													
		RW: AT,	BE,	CH,	DE,	DK,	, ES,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE	
	US	5744125			Α		1998	0428		US 1	995-	3925	89		1	9950:	223	
	ΑU	9649265			A1		1996	0911		AU 1	996-	4926	5		1	9960	214	
	ΑU	702553			B2		1999	0225										
	ΕP	820275			A1		1998	0128		EP 1	996-	9055	32		. 1	9960:	214	
		R: AT,	BE,	CH,	DE,	DK,	, ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	ΙE
	BR	9607287			Α		1998	0623		BR 1	996-	7287			1	9960	214	
	JP	11501341			Т2		1999	0202		JP 1	996-	5257	66		1	9960	214	
PRAI	US	1995-392	589		Α		1995	0223										
	US	1993-1093	286		В2		1993	0819										

=> d L1 11-20 IBIB ABs

WO 1996-US2163

L1 ANSWER 11 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

W

ACCESSION NUMBER: 2003:17440 CAPLUS

DOCUMENT NUMBER: 138:74644

TITLE: Manufacture of animal protein fibers showing low heat

19960214

of wetting

INVENTOR(S): Fujiwara, Hisashi; Yamada, Hiroo PATENT ASSIGNEE(S): Unitika Textile Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003003374	A2	20030108	JP 2001-191205	20010625
PRIORITY APPLN. INFO.:			JP 2001-191205	20010625

AB The fibers are manufactured by (a) treating surfaces of animal protein fibers with hydrophobic polymers or (b) reaction of fibers with epoxy polymers. Thus, wool was treated with Polymer PL (aminoacrylic copolymer), spun into yarn, and woven to give a fabric showing reduced heat generation on humidification and low shrinkage on laundering.

L1 ANSWER 12 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:960908 CAPLUS

DOCUMENT NUMBER: 138:303661

TITLE: Polymer-supported hypervalent iodine reagents

AUTHOR(S): Togo, Hideo; Sakuratani, Kenji

CORPORATE SOURCE: Graduate School of Science and Technology, Department

of Chemistry, Faculty of Science, Chiba University,

Chiba, 263-8522, Japan

SOURCE: Synlett (2002), (12), 1966-1975

CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. Polymer-supported hypervalent iodine reagents, bearing (diacetoxy)iodo, (dihalo)iodo, (hydroxy)(tosyloxy)iodo, (hydroxy)(phosphoryloxy)iodo, aryliodonium, 1,2-benziodoxol-3-one, and hypervalent iodine groups as counter anions, can be used for various oxidative functional group conversions of substrates. These polymer species can be recovered quant. by simple filtration, and can be regenerated and reused. Thus, these polymer-supported hypervalent iodine reagents are very useful, effective, and environmentally benign reagents

for organic synthesis.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:764802 CAPLUS

DOCUMENT NUMBER: 138:4178

TITLE: Recoverable Catalysts and Reagents Using Recyclable

Polystyrene-Based Supports

AUTHOR(S): McNamara, Catherine A.; Dixon, Mark J.; Bradley, Mark

CORPORATE SOURCE: Department of Chemistry, Southampton University,

Highfield/Southampton, SO17 1BJ, UK

SOURCE: Chemical Reviews (Washington, DC, United States)

(2002), 102(10), 3275-3299 CODEN: CHREAY; ISSN: 0009-2665

PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review including C-C bond formation using recyclable resin-based

reagents and catalysts, immobilized oxidants, and immobilized resin-based

reductants.

REFERENCE COUNT: 122 THERE ARE 122 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L1 ANSWER 14 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:725672 CAPLUS

DOCUMENT NUMBER: 137:294498

TITLE: High-performance polymer-type oxidizing agents

AUTHOR(S): Togo, Hideo; Sakuratani, Kenji

CORPORATE SOURCE: Faculty of Science, Chiba Univ., Chiba, 263-8522,

Japan

SOURCE: Kagaku to Kogyo (Tokyo, Japan) (2002), 55(9),

1018-1020

CODEN: KAKTAF; ISSN: 0022-7684

PUBLISHER: Nippon Kagakkai

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

AB A review on oxidation reactions using recyclable oxidizing agents having (diacetoxy)iodo or hydroxy(tosyloxy)iodo group bound to polystyrene.

L1 ANSWER 15 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:446144 CAPLUS

DOCUMENT NUMBER: 137:21283

TITLE: Packaging material and multilayer container with good

oxygen-barrier property

INVENTOR(S): Kikuchi, Atsushi; Komatsu, Ikuo; Yamada, Toshiki;

Kitano, Yoshihiro; Saito, Go

Toyo Seikan Kaisha Limited, Japan

SOURCE: Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PA	TENT NO.	KIND	DATE	APPLICATION NO.	DATE				
ΕP	1213326	A1	20020612	EP 2001-310255	20011207				
	R: AT, BE,	CH, DE, DK	, ES, FR,	GB, GR, IT, LI, LU, NL,	SE, MC, PT,				
	IE, SI,	LT, LV, FI	, RO, MK,	CY, AL, TR					
ΑU	2001097111	A5	20020613	AU 2001-97111	20011206				
US	2002115768	A1	20020822	US 2001-3228	20011206				
JP	2002241608	A2	20020828	JP 2001-373200	20011206				
US	2002146527	A1	20021010	US 2001-3055	20011206				
US	6680094	B2	20040120						
CA	2364882	AA	20020608	CA 2001-2364882	20011207				
ΑU	2001097149	A5	20020613	AU 2001-97149	20011207				
JP	2003011283	A2	20030115	JP 2002-66728	20020312				
US	2004176536	A1	20040909	US 2004-802718	20040318				

PRIORITY APPLN. INFO.: JP 2000-374947 A 20001208 JP 2001-130170 A 20010426 JP 2001-130181 A 20010426 US 2001-3228 A3 20011206

AB Disclosed is a packaging material having an oxygen-absorbing layer of a thermoplastic resin which is blended with an organic oxidizing component and with a transition metal catalyst, wherein the thermoplastic resin is not substantially oxidized in the presence of the transition metal catalyst. The thermoplastic resin is not deteriorated by oxidation and, hence, oxygen-barrier property is not deteriorated, making it possible to stably suppress the permeation of oxygen over extended periods of time. Thus, a resin composition was prepared by using a twin-screw extruder, the resin composition containing a T 600 (MXD6 polyamide) as a thermoplastic resin on which a Co neodecanoate had been deposited in an amount of 310 ppm calculated as Co, and 5% of M 2000-20 (maleated butadiene rubber) as an organic oxidizing component. An oxygen-absorbing film having a thickness of 20 μm was prepared from the above resin composition A PET film was laminated on one surface of the above film and a polypropylene film was laminated on the other surface thereof to obtain a multilayer film with excellent oxygen-barrier property.

REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 16 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:264466 CAPLUS

DOCUMENT NUMBER: 137:125778

TITLE: Synthesis and curing behaviors of a crosslinkable

polymer from cashew nut shell liquid

AUTHOR(S): Ikeda, Ryohei; Tanaka, Hozumi; Uyama, Hiroshi;

Kobayashi, Shiro

CORPORATE SOURCE: Japan Chemical Innovation Institute (JCII), Joint

Research Center for Precision Polymerization (JRCPP),

Ibaraki, Tsukuba, 305-8565, Japan Polymer (2002), 43(12), 3475-3481 CODEN: POLMAG; ISSN: 0032-3861

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

SOURCE:

SOURCE:

In the present study, we have oxidatively polymerized cashew nut shell liquid(CNSL), whose main component is cardanol, a phenol derivative having a meta substituent of a C15 unsatd. hydrocarbon chain with one to three double bonds as the major, and examined the curing behaviors of the resulting polymer. Fe-salen efficiently catalyzed the polymerization in bulk at room temperature to give a soluble crosslinkable polymer in a good yield. Various metal complexes also catalyzed the polymerization at 80 °C, although their catalytic activity was lower than that of Fe-salen. The curing by cobalt naphthenate catalyst or thermal treatment took place to give the crosslinked film (artificial urushi) with high hardness and gloss surface. In the curing of polyCNSL by the thermal treatment, the crosslinking behaviors and properties of the resulting film were similar to those of a com. available CNSL-formaldehyde resin.

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 17 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN T.1

ACCESSION NUMBER: 2002:120982 CAPLUS

DOCUMENT NUMBER: 137:5750

TITLE: Polymer-supported sulfinimidoyl chloride as a useful

reagent for oxidation of various alcohols to the

corresponding carbonyl compounds

AUTHOR(S): Matsuo, Jun-Ichi; Kawana, Asahi; Pudhom, Khanitha;

Mukaiyama, Teruaki

CORPORATE SOURCE: Department of Applied Chemistry, Faculty of Science,

Science University of Tokyo, Tokyo, 162-8601, Japan

Chemistry Letters (2002), (2), 250-251

CODEN: CMLTAG; ISSN: 0366-7022

PUBLISHER: Chemical Society of Japan

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:5750 AB Polymer-supported sulfinimidoyl chloride was prepared in four steps from chloromethyl polystyrene resin. Stoichiometric and catalytic oxidns. of various alcs. to the corresponding carbonyl compds. were carried out

cleanly by using the prepared polymer-bound oxidant.

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 18 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:542938 CAPLUS

DOCUMENT NUMBER: 135:241214

TITLE: Preparative method for in vitro production of

functional polymers from glutenin subunits of wheat AUTHOR(S): Beasley, Helen L.; Blanchard, Chris L.; Bekes, Ferenc

CORPORATE SOURCE: Grain Quality Research Laboratory, CSIRO Plant

Industry, North Ryde, 1670, Australia
Cereal Chemistry (2001), 78(4), 464-470

CODEN: CECHAF; ISSN: 0009-0352

PUBLISHER: American Association of Cereal Chemists

DOCUMENT TYPE: Journal LANGUAGE: English

SOURCE:

An in vitro method for preparative-scale production of artificial glutenin polymers utilizes a controlled environment for the oxidation of glutenin subunits (GS) isolated from wheat flour to achieve high polymerization efficiency. The functionality of in vitro polymers was tested in a 2-q model dough system and was related to the treatment of the proteins before, during, and after in vitro polymerization. When added as the only polymeric component in a reconstituted model dough (built up from gliadin, water solubles, and starch fractions), in vitro polymers could mimic the behavior of native glutenin, demonstrating properties of dough development and breakdown. Manipulating the high mol. weight (HMW) GS to a low mol. weight (LMW)-GS ratio altered the mol. weight distribution of in vitro polymers. In functional studies using the 2-g mixograph, simple doughs built up from homopolymers of HMW-GS were stronger than those using homopolymers of LMW-GS. These differences may be accounted for, at least in part, by different polymer size distributions. The ability to control the size and composition of glutenin polymers shows the potential of this approach for investigating the effects of glutenin polymer size on dough function and flour end-use quality.

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 19 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:443339 CAPLUS

DOCUMENT NUMBER: 136:153012

TITLE: Progress in research of polymer-supported oxidizing

reagents

AUTHOR(S): Wu, Qinghu; Wang, Hui; Hu, Guowen

CORPORATE SOURCE: Department of Chemistry, Xianning Normal College,

Xianning, 437005, Peop. Rep. China

SOURCE: Lizi Jiaohuan Yu Xifu (2001), 17(2), 187-192

CODEN: LJYXE5; ISSN: 1001-5493 Lizi Jiaohuan Yu Xifu Bianjibu

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Chinese

PUBLISHER:

AUTHOR(S):

AB A review with refs. on the research progress of polymer-supported

oxidizing reagents, and their use in organic synthesis.

L1 ANSWER 20 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:186482 CAPLUS

DOCUMENT NUMBER: 135:5561

TITLE: Solid-support-bound 1-aminoimidazolium chlorochromate:

a selective, efficient and recyclable oxidant

Linares, M. Lourdes; Sanchez, Nuria; Alajarin, Ramon;

Vaquero, Juan J.; Alvarez-Builla, Julio

CORPORATE SOURCE: Departamento de Quimica Organica, Facultad de

Farmacia, Universidad de Alcala, Alcala de Henares,

Madrid, 28871, Spain

SOURCE: Synthesis (2001), (3), 382-388

CODEN: SYNTBF; ISSN: 0039-7881

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:5561

AB A series of polymer-bound imidazolium chlorochromates have been synthesized and used as selective oxidants for benzyl and cinnamyl alcs. Solid-support-bound 1-aminoimidazolium chlorochromate proved to be the most convenient system due to its efficiency, selectivity and ease of

recycling the material.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 21-88 IBIB ABS

1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE The answer numbers requested are not in the answer set.

ENTER ANSWER NUMBER OR RANGE (1):L1

ANSWER NUMBERS NOT CORRECTLY SPECIFIED

Enter an answer number, Example: 10
several answer numbers, Example: 3,7,10
a range of answer numbers, Example: 5-10
or a combination of these. Example: 3,7,9-10,15
ENTER ANSWER NUMBER OR RANGE (1):end

=> d L1 21-84 IBIB ABS

L1 ANSWER 21 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:152789 CAPLUS

DOCUMENT NUMBER: 134:182152

TITLE: Polymer- and surfactant-containing aqueous

compositions for chemical mechanical polishing of

semiconductor wafer substrates

INVENTOR(S): Costas, Wesley D.; Shen, James; Mandigo, Glenn C.;

Thomas, Terence M.; Lack, Craig D.; Barker, Ross E.,

ΙI

PATENT ASSIGNEE(S): Rodel Holdings, Inc., USA SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

	PATENT NO.			KIND DATE			APPLICATION NO.						DATE							
	WO 2001014496 W: JP, KR,				A1 20010301				WO	20	00-	 US23	052	20000823						
		W:	JΡ,	KR,	SG															
		RW:	AT, PT,		CH,	CY,	DE,	, DK,	ES,	FI,	FI	₹,	GB,	GR,	IE,	IT,	LU	, MC,	NL,	
	US	6443	812			В1		2002	0903		US	20	00-	6340	13			20000	808	
	US	6607	424			В1		2003	0819		US	20	00-	6435	78			20000	822	
	ΕP	1210	395			A1		2002	0605		EΡ	20	00-	9558	37			20000		
	ΕP	1210	395			В1		2003	1022						_					
		R:	AT, IE,	BE, FI,	•	DE,	DK,	ES,	FR,	GB,	GI	٦,	IT,	LI,	LU,	NL,	SE	, MC,	PT,	
	JP	2003	5075	66 [.]		Т2		2003	0225		JР	20	01-	5188	14			20000	823	
	US	2002	0626	00		A1		2002	0530		US	20	01-	9252	10			20010		
PRIO	RIT	APP	LN.	INFO	. :						US	19	99-	1504	43P		P :	19990	824	
											US	20	00-	2246	86P		P :	20000	811	
											WO	20	00-1	us23	052	1	W :	20000	823	
											US	20	00-	2338	18P		P :	20000	920	
AB	Aαι	ieous	COM	nns	for	the	no1	lishi	na o	fsa	mic	מחי	duct	tor	wafa	r en	het	ratoe	con	ei.

AB Aqueous compns. for the polishing of semiconductor wafer substrates consists either of an organic polymer or a surfactant both having a backbone comprised of ≥16 carbon atoms and a plurality of moieties with affinity to surface groups on the semiconductor wafer surface. The compns. also contain 1-15 weight% oxidizing agent (such as hydrogen peroxide), 50-5000 ppm of an inhibitor (such as benzotriazole or tolyltriazole), ≤3 weight% carboxylic acid complexing agent (such as malic acid), up to 3 weight% abrasive particles (such as silica or diamond) and optionally a dispersant. The compns. provide improved wafers with reduced surface tension and surface roughness with decreased slurry/residue re-deposition

on the substrate surface.

REFERENCE COUNT: THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS 5 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1ANSWER 22 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:143710 CAPLUS

DOCUMENT NUMBER: 134:194519

Light-resistant articles and their manufacture TITLE:

DATE

INVENTOR(S): Kodama, Tetsuo

PATENT ASSIGNEE(S):

Toyobo Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 5 pp. SOURCE:

KIND

CODEN: JKXXAF

DOCUMENT TYPE: Patent Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

JP 2001055506	A2	20010227	JP 1999-230626	19990817
JP 3560227	B2	20040902		
PRIORITY APPLN. INFO.:			JP 1999-230626	19990817
			ch form colors by oxid	
			s for improvement in 1	
			-phenylene benzobisoxa	
			p-phenylenediamine at	
			ile strength (JIS L 10	96-1990) after
100-h exposure to	Xe lamp	light.		

APPLICATION NO.

DATE

ANSWER 23 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:725476 CAPLUS

DOCUMENT NUMBER: 133:291106

Immunomodulating polymers TITLE:

Tzianabos, Arthur O.; Kasper, Dennis L.; Onderdonk, INVENTOR(S):

Andrew B.; Wang, Ying

Brigham and Women's Hospital, Inc., USA PATENT ASSIGNEE(S):

PCT Int. Appl., 80 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.				KIND DATE			APPLICATION NO.						DATE					
WO 2	20000	0595	15		А3		2000 2001	0111	1	WO 2	000-	US85	86		20000331			
WO 2	20000)595:	15		C2		2002	0829										
	W:	ΑE,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	
							GB,											
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	K:							FR,	GB,	GR,	IT,	LΙ,	LU,	ΝL,	SE,	MC,	PT,	
															_			
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,	
			FΙ,															
US 2	20042	2098:	18		A1		2004	1021	1	US 2	004-	8487	79		2	0040	519	
ORITY																		
		•																
CA 2 BR 2 EP 1 JP 2 EP 1	23668 20000 R: 20025 L4597 R:	MN, TM, RU, GH, DK, CG, 395 0095 AT, IE, 5411 757 AT, IE, 2098	MW, TR, TJ, GM, ES, CI, 31 BE, SI, 13 BE, FI,	MX, TT, TM KE, FI, CM, CH, LT,	NO, UA, ES, FR, GA, AA A 2 DE, LV, T2 A1 DE,	NZ, UG, MW, GB, GN, DK, FI,	KZ, PL, UZ, SD, GR, GW, 2000 2001 2002 ES, RO 2002 2004 ES,	PT, VN, SL, IE, ML, 1012 1226 0109 FR, 1203 0922 FR,	RO, YU, SZ, IT, MR, GB,	RU, ZA, TZ, LU, NE, CA 2 GR, JP 2 GR, US 1 US 1	SD, ZW, UG, MC, SN, 000- 1T, 000- 1T, 004- 1T,	SE, AM, ZW, NL, TD, 2366: 9531: 9199: LI, 6090: 1402: LI, 8487: 1275: 1624:	SG, AZ, AT, PT, TG 895 58 LU, 78 0 LU,	SI, BY, BE, SE, NL,	SK, KG, CH, BF, 2 2 SE, 2 SE, 2 P 1 P 1	SL, KZ, CY, BJ, 0000 0000 MC, 0000 MC,	333	

US 2000-540024 A3 20000331 WO 2000-US8586 W 20000331

AB Methods and products for inducing IL-2 secretion, inducing IL-10 secretion, activating T cells, suppressing IgG antibody response to specific antigen, promoting allograft survival, reducing postoperative surgical adhesion formation, and protecting against abscess formation associated with surgery, trauma or diseases that predispose the host to abscess formation are provided. The methods of the invention are accomplished using an immunomodulator which is a polymer having at least two repeating charge motifs separated by at least a certain min. distance.

L1 ANSWER 24 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:628221 CAPLUS

DOCUMENT NUMBER: 133:245164

TITLE: A composition comprising a photo-oxidizing agent and

uses of the agent

INVENTOR(S): Ortiz, Rafael; Kitko, David Johnathan; Burns, Michael

Eugene; Heinzman, Stephen Wayne; Willey, Alan David; Jeffreys, Brian; Burckett-St Laurent, James Charles Theophile Roger; Vinson, Phillip Kyle; Trajano, Trace

Wendell de Guzman

PATENT ASSIGNEE(S): Procter and Gamble Company, USA

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

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PATENT NO.
                      KIND
                             DATE
                                      APPLICATION NO.
                                                            DATE ·
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                                        -----
    WO 2000052101
                      A1 20000908 WO 1999-US5795 19990317
        W: AE, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,
            CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM,
            HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
            LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD,
            SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU,
            ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
            ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
            CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    AU 9930948
                             20000921
                                      AU 1999-30948
                       Α1
                                                             19990317
                                        EP 1999-912606
    EP 1159354
                       Α1
                             20011205
                                                            19990317
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
    BR 9917226
                             20020226
                       Α
                                        BR 1999-17226
                                                             19990317
PRIORITY APPLN. INFO.:
                                        US 1999-123005P
                                                         P 19990305
                                                        W 19990317
                                        WO 1999-US5795
```

AB The present invention relates to certain compns. comprising specific photo-oxidizing agents, which are a mixture of elected photo-oxidizing component and selected polymers, which has an improved photo-oxidizing performance, in particular due to improved solubility and surface activity and improved light absorption. The agent may comprise a polymeric component, preferably with ≥50% monomer units containing a dipolar aprotic group., and a photo-oxidizing component in a (1-1000):1 weight ratio. Alternatively the agent is a mixture of a water-soluble polymer and a photo-oxidizing component that is a mixture of non-charged hydrophobic photo-oxidizing compds. and nonbonded ligand selected from compds. that can bind axially to a Si, Al, Ga, Ge or Sn phthalocyanine moiety; the photo-oxidizing compds. are selected from these phthalocyanines with a bonded ligand in at least one axial position and are solid at ambient temperature in the absence of impurities. The invention also provides a number of uses for these agents. including bleaching of hair and also paper, pulp and yarn; water purification; disinfecting uses; photo-dynamic therapy; spectral filters to improve photosynthesis; and disposable absorbents such as bandages and diapers.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

DOCUMENT NUMBER: 134:56259

TITLE: Polymer-supported molybdenyl thioglycolate as oxygen

atom transfer reagent

AUTHOR(S): Arroyo, P.; Gil, S.; Munoz, A.; Palanca, P.; Sanchis,

J.; Sanz, V.

CORPORATE SOURCE: Departament de Quimica Organica, Universitat de

Valencia, Burjassot, 46100, Spain

SOURCE: Journal of Molecular Catalysis A: Chemical (2000),

160(2), 403-408

CODEN: JMCCF2; ISSN: 1381-1169

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:56259

AB Oxo-transfer reactions of a variety of substrates in DMF or methanol using polymer-supported molybdenyl thioglycolate (PSMT) have been investigated. The clean oxidation of Me2PhP, n-butanethiol or benzoin to yield Me2PhPO, disulfide or benzil, resp., occurs in high yield. In the presence of air or pyridine N-oxide, a catalytic cycle is accomplished which goes on until

the complete depletion of the substrate.

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 26 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:314419 CAPLUS

DOCUMENT NUMBER: 132:341958

TITLE: Polymer particles and polishing material containing

them

INVENTOR(S): Masayuki, Hattori; Masayuki, Motonari; Akira, Iio

PATENT ASSIGNEE(S): Jsr Corporation, Japan SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 999254	A1	20000510	EP 1999-121854	19991104
R: AT, BE, CH,	DE, DK	, ES, FR, GB	B, GR, IT, LI, LU, NI	, SE, MC, PT,
IE, SI, LT,	LV, FI	, RO		
JP 2000143807	A2	20000526	JP 1998-314739	19981105
TW 461916	В	20011101	TW 1999-88119244	19991104
US 2001039322	A1	20011108	US 2001-897129	20010703
US 6565767	B2	20030520		
PRIORITY APPLN. INFO.:			JP 1998-314739 ·	A 19981105
	*		US 1999-433213	A3 19991104

AB The polymer particles are obtained by polycondensation of ≥1 compound of the formula M(OR1)z, its hydrolyzates and its partial condensates, and ≥1 compound of the formula (R2)nM(OR3)z-n, its hydrolyzates and its partial condensates, and having a mean particle size of 3-1000 nm. In the formulas, M = Al, Si, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ge, Zr, Nb, Mo, Sn, Sb, Ta, W, Pb, or Ce; z is the atomic valence of M; R1,R3 = C1-5 alkyl, C1-6 acyl, or C1-9 aryl; R2 = C1-8 monovalent organic group; n = 1 to (z - 2); and R1, R2, and R3 may be the same or different. The polishing material is used for chemical-mech. polishing of semiconductor wafers and magnetic disks.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 27 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:518847 CAPLUS

DOCUMENT NUMBER: 131:147874

TITLE: Corrosion inhibitors and corrosion inhibition

INVENTOR(S): Komatsu, Takashi

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

corroded surfaces.

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ---------_____ -----_____ JP 11222684 A2 19990817 JP 1998-22020 19980203 PRIORITY APPLN. INFO.: JP 1998-22020 The corrosion inhibitors are solns, or dispersions containing resins and either or both of oxidizing agents and chelating agents. Pigments may also be added. Corrosion of metals are prevented by application of the corrosion inhibitors. Further corrosion of metal materials, e.g.

automobile disk brakes, are prevented by application of the agents on the

L1ANSWER 28 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:403969 CAPLUS

DOCUMENT NUMBER: 131:144352

TITLE: Hypervalent iodine in synthesis. XXVIII. Preparation

and utility of polymer-supported phenyliodine(III)

diacetate

AUTHOR(S): Wang, Guo-Ping; Chen, Zhen-Chu

CORPORATE SOURCE: Chemistry department, Hangzhou University, Hangzhou,

310028, Peop. Rep. China

SOURCE: Synthetic Communications (1999), 29(16), 2859-2866

CODEN: SYNCAV; ISSN: 0039-7911

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

Polymer-supported phenyliodine(III) diacetate has been developed and used

effectively to oxidize a variety of organic compds. with good yield.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 29 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN L1

ACCESSION NUMBER: _ 1999:363147 CAPLUS

DOCUMENT NUMBER: 131:145342

TITLE: Polystyrene-based pyrazolinium permanganates: a new

class of recyclable oxidizing reagents

AUTHOR(S): Abraham, Shiney; Rajan, P. K.; Sreekumar, K. CORPORATE SOURCE: Department of Chemistry, University of Kerala,

Thiruvananthapuram, 695 581, India

SOURCE: Designed Monomers and Polymers (1999), 2(2), 143-151

CODEN: DMPOF3; ISSN: 1385-772X

PUBLISHER: VSP BV DOCUMENT TYPE: Journal -LANGUAGE: English

Polystyrene-supported pyrazolinium permanganate has been prepared and used as a new class of recyclable oxidizing reagent for alcs. The reagent was found to be selective as it oxidized primary alcs. to aldehydes and

secondary alcs. to ketones only. The effect of various reaction

conditions such as the temperature, solvent, and molar concentration of the reagent was examined in order to find the optimum conditions. The spent pyrazolinium permanganate resin can be easily removed by filtration and can be recycled

and reused.

SOURCE:

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1ANSWER 30 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:268547 CAPLUS

DOCUMENT NUMBER: 131:44419

TITLE: Study on polymer-supported bromate ion oxidizer AUTHOR(S): Yang, Gui-Chun; Cheng, Zu-Xin; Huang, Jin-Xia; Chen,

Jia-Wei; Shi, Cong-Yun

CORPORATE SOURCE: Institute of Chemistry and Material, Hubei University,

Wuhan, 430062, Peop. Rep. China Youji Huaxue (1999), 19(2), 141-146

CODEN: YCHHDX; ISSN: 0253-2786

PUBLISHER: Kexue Chubanshe

DOCUMENT TYPE: Journal LANGUAGE: Chinese

AB Polymer-supported bromate ion oxidizer was prepared from strong basic ion-exchange resin with sodium bromate. In the presence of 40% HBr or AlCl3 or NaHSO3, the primary alcs. and simple ethers were readily oxidized to esters; secondary alcs. to ketones; α, ω -diols and cyclic ethers to lactones; thiols and selenols to the corresponding disulfides and diselenides with good to excellent yields resp., by the polymer-supported bromate ion oxidizer.

L1 ANSWER 31 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:242765 CAPLUS

DOCUMENT NUMBER: 130:238247

TITLE: Oxidizing agent-containing

polymer compositions for gas-barrier packaging

INVENTOR(S):
Oriani, Luis Alberto de Godoy

PATENT ASSIGNEE(S): Rhodia-Ster S/A, Brazil SOURCE: Braz. Pedido PI, 12 pp.

CODEN: BPXXDX

DOCUMENT TYPE: Patent LANGUAGE: Portuguese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BR 9604229	A	19980526	BR 1996-4229	19960909
PRIORITY APPLN. INFO.:			BR 1996-4229	19960909
AB The title compns.	comprise	(a) polvest	ers (e.g., PET, poly	v/ethvlene

AB The title compns. comprise (a) polyesters [e.g., PET, poly(ethylene naphthalate)], (b) polyamides (e.g., nylon 66, nylon 6, nylon MXD6), and (c) 0.01-20% oxidants (e.g., Co acetate, Al).

L1 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:155050 CAPLUS

DOCUMENT NUMBER: 128:199658

TITLE: Manufacture of solid electrolytic capacitor containing

polymer electrolyte

INVENTOR(S): Yamaguchi, Rikizo

PATENT ASSIGNEE(S): Sanyo Electric Co., Ltd., Japan; Saga Sanyo Industries

Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10064761 JP 3296727	A2 B2	19980306 20020702	JP 1996-221177	19960822

PRIORITY APPLN. INFO.: JP 1996-221177 19960822

The capacitor has a capacitor device, comprising a chemical conversion film-coated anode material, immersed with an elec. conductive polymer.

The manufacture method involves (1) immersing the device with a solution containing a monomer for oxidation polymerization and an oxidizing agent and (2) keeping the device at $30-50^{\circ}$ and humidity $\geq 60\%$ to form an elec.

conductive polymer layer on the film. The capacitor shows low equivalent series resistance, small size, and large capacitance.

L1 ANSWER 33 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:76437 CAPLUS

DOCUMENT NUMBER: 128:199653

TITLE: Solid electrolytic capacitor containing sulfonic acid-doped conductive polymer and its manufacture

INVENTOR(S): Kobayashi, Atsushi; Fukaumi, Takashi; Date, Tomohide

PATENT ASSIGNEE(S): NEC Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

	LY ACC. NUM. COUNT: NT INFORMATION:	1			
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 10032145 JP 3235475		19980203 20011204	JP 1996-185831	19960716
	EP 820076 EP 820076		19980121 20000112	EP 1997-112098	19970715
	EP 820076	B1	20040211	, GR, IT, LI, LU, NL, S	E MC DE
	IE, SI, LT,	LV, FI	, ES, IN, GB, , RO	, GR, 11, E1, E0, NE, S	E, MC, FI,
	CN 1173029 CN 1111884	Α	19980211 20030618	CN 1997-115014	19970716
PRIO	US 6229689 RITY APPLN. INFO.:	В В1	20010508	US 1997-895594 JP 1996-185831 A	19970716 19960716
AB	organic sulfonic ac sulfonic acid, alic The capacitor is ma oxidation-polymeriz containing a cupric compound and H2O2. from forming and gi	id conta yclic sinufacturation of compouration of The man wes the	aining aromatulfonic acid, red by forming a polymerized, a Ag computacture met capacitor in eries resista	electrolyte layer doped tic polysulfonic acid, of and benzoquinonesulforing the polymer layer by zable monomer by using a pound, their mixture, and thod using the agent profit a low cost. The capacance) and current leakage	OH- or CO2H-containing organic nic acid. chemical an oxidizing agent nd a mixture of a Fe events byproducts citor shows
	ANSWER 34 OF 84 CA SSION NUMBER: MENT NUMBER: E:	1997:79 128:888 Synthes	97868 CAPLUS 821 sis of isoxa:		supported
	OR(S): DRATE SOURCE:	Hinzen		Ley, Steven V. istry, University of Car	mbridge
			dge, CB2 1EW,		mbildge,
SOUR	CE:	1: Orga	l of the Cher anic and Bio- JCPRB4; ISSN	nical Society, Perkin Tr -Organic Chemistry (1998 N: 0300-922y	ransactions 8), (1), 1-2
	ISHER: MENT TYPE:		Society of Ch		
LANG	JAGE:	English	า		
OTHE	R SOURCE(S):	CASREAG	CT 128:88821		

PUBLISHER:

AB Polymer supported perruthenate has been used in mild and selective oxidns. of secondary hydroxylamines to give nitrones. In the presence of dipolarophiles isoxazolidines are obtained in a one-pot processes in good yields.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 35 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1997:481271 CAPLUS

DOCUMENT NUMBER: 127:175993

TITLE: Polymer supported perruthenate: a new oxidant for

clean organic synthesis

AUTHOR(S): Hinzen, Berthold; Ley, Steven V.

CORPORATE SOURCE: Dep. Chem., Univ. Cambridge, Cambridge, CB2 1EW, UK SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1997), (13),

1907-1908

CODEN: JCPRB4; ISSN: 0300-922X Royal Society of Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:175993

A polymer supported perruthenate reagent has been prepared and used in the conversion of primary and secondary alcs. to aldehydes and ketones, resp., affording pure products without the need for conventional work-up procedures.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L1 ANSWER 36 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:641304 CAPLUS

DOCUMENT NUMBER: 125:284363

TITLE: Cosmetic melanins

INVENTOR(S): Pawelek, John M.; Platt, James T.

PATENT ASSIGNEE(S): Yale University, USA SOURCE: PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.		KIN	D DATE	APPLICATION NO.	DATE		
WO	9625920			A1	19960829	WO 1996-US2163	19960214
	W: AU,	BR,	JP,	KR,	RU		
	RW: AT,	BE,	CH,	DE,	DK, ES, FR,	GB, GR, IE, IT, LÚ,	MC, NL, PT, SE
US	5744125			Α	19980428	US 1995-392589	19950223
AU	9649265			A1	19960911	AU 1996-49265	19960214
AU	702553			В2	19990225		
EP	820275			A1	19980128	EP 1996-905532	19960214
	R: AT,	BE,	CH,	DE,	DK, ES, FR,	GB, GR, IT, LI, LU,	NL, SE, MC, PT, IE
BR	9607287			Α			19960214
JP	11501341			Т2	19990202	JP 1996-525766	19960214
PRIORIT	Y APPLN.	INFO.	:			US 1995-392589	A 19950223
						US 1993-109286	B2 19930819
						WO 1996-US2163	W 19960214

Disclosed are cosmetic melanins of different colors produced by procedures involving oxidative polymerization of monomeric precursors of melanin and/or comonomers that enhance substantivity or adherence of the melanins to the skin and hair. Also disclosed are methods for preparing cosmetic melanins and methods for using these compns. topically to produce a natural-appearing tan and to prevent damage to skin caused by UV exposure. Aloin 100 kg, concentrated NH4OH 350 L, CuSO4 750 g, water 550 L, and H2O2 100 L were mixed and aerated; the resultant melanin polymer was precipitated by EtOH (2500 L) and dried to yield a red cosmetic melanin. Melanin obtained was dissolved in Avon body lotion at concentration of 1% for cosmetic uses.

L1 ANSWER 37 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:425451 CAPLUS

DOCUMENT NUMBER: 125:66079

TITLE: Polymer-coated piezoelectric crystal sensor for air

analysis

INVENTOR(S): Schoenfeld, Axel; Feucht, Gernot; Schleicher, Andreas;

Frank, Georg; Rieger, Heinz-Joachim

PATENT ASSIGNEE(S): Hoechst A.-G., Germany SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9614573 W: CN, JP, KR,	A1 US	19960517	WO 1995-EP4315	19951103
RW: AT, BE, CH,		, ES, FR,	GB, GR, IE, IT, LU, M	C. NL. PT. SE
DE 4439765	A1	19960515	DE 1994-4439765	
DE 4440020	A1	19960515	DE 1994-4440020	
DE 19509296	A1	19960919	DE 1995-19509296	19950315
EP 805971	A1	19971112	EP 1995-937861	19951103
EP 805971	B1	19980923		
R: DE, FR, GB				
JP 10508693	T2	19980825	JP 1995-515046	19951103
US 5958787	Α	19990928	US 1997-836166	19970623
PRIORITY APPLN. INFO.:			DE 1994-4439765	A 19941107
			DE 1994-4440020	A 19941109

AB A sensor for oxidizing agents contains an oxidizable aromatic polymer. The sensor consists of a piezoelec. crystal coated with a porous or non-porous layer that contains the oxidizable aromatic polymer.

L1 ANSWER 38 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:392127 CAPLUS

DOCUMENT NUMBER: 125:116179

TITLE: Polymers having hydroxyl and carboxyl groups and their

preparation

INVENTOR(S): Tahara, Hideyuki; Itoh, Hiroshi; Kofuji, Keiji;

Takagi, Masahito

PATENT ASSIGNEE(S): Nippon Shokubai Co., Ltd., Japan

SOURCE: U.S., 14 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5523380	Α	19960604	US 1994-273149	19940713
PRIORITY APPLN. INFO.:			US 1994-273149	19940713
AB The title polymers.	compri	sing α-glyco	ol structure units	

The title polymers, comprising α -glycol structure units [CH2CH(OH)CR1(OH)CH2], carboxylic acid-based structure units [CHR2CR3(CO2M)] (R1 = H, Me, Cl; R2 = H, Me, CO2M; R3 = H, Me; M = H, 1-3 valent metal, NH4, amine), and lactone structure units, provide superior dispersibility, chelating ability, and viscosity-stabilizing effect and are useful as detergent builders, pigment- and cement-dispersing agents, hydrogen peroxide stabilizers, and gas-barrier agents for plastic films. The polymer are produced by copolymg. conjugated diene monomers (e.g., butadiene) and carboxylic acid monomers (e.g., maleic anhydride) and oxidizing copolymers (e.g., with KMnO4, H2O2).

L1 ANSWER 39 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:340287 CAPLUS

DOCUMENT NUMBER: 125:11750

TITLE: Manufacture of phenol polymers

INVENTOR(S): Terahara, Atsushi; Higashimura, Hideyuki

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

Ι

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08053545	A2	19960227	JP 1994-190657	19940812
JP 3596038	B2	20041202		
JP 2004124109	A2	20040422	JP 2004-25331	20040202
PRIORITY APPLN. INFO.:			JP 1994-190657	A3 19940812
OTHER SOURCE(S):	MARPAT	125:11750		
GT				

In the manufacture, phenols I [R1-5 = H, halo, (substituted) hydrocarbon, AB hydrocarbon oxy groups, (substituted) amino, OH; ≥2 of R1, R3, R5 = H] are oxidized with peroxides in the presence of transition metal complexes as catalysts to give title polymers with good lower cost processability, useful for adhesives, coatings, etc. Thus, 745 mg phenol, 4 mg μ -oxobis[N,N'-di(salicylidene) ethylenediaminato]iron(III), and 1 mL hydrogen peroxide were mixed for 3 h to give a polymer with number-average mol. weight 3300 and weight-average mol. weight 14,300.

ANSWER 40 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:813872 CAPLUS

DOCUMENT NUMBER: 123:348417

Stable polymer oxidant for decontamination TITLE:

AUTHOR(S): Tillman, N.; Kaplan, M. S.

CORPORATE SOURCE: Eastman Kodak Co., Rochester, NY, USA

SOURCE: Report (1994), ERDEC-TR-109; Order No. AD-A282579, 107

pp. Avail.: NTIS

From: Gov. Rep. Announce. Index (U. S.) 1994, 94(22),

Abstr. No. 462,109

DOCUMENT TYPE: Report LANGUAGE: English

Treatment of a variety of polymers with ozone in oxygen was investigated as a means of forming covalently-bound peroxide groups attached to solid polymeric materials. Cellulose esters, such as cellulose acetate propionate, were found to form significant amts. of peroxide groups (greater than or equal to 1 mmol/g). These ozonized cellulose esters (XAE) were extensively tested for reactivity and sorptivity against a range of CW agent simulants, especially organosulfide mustard simulants. oxidative reactivities of XAEs were found to exceed that of model alkyl hydroperoxides and to be comparable to alkyl hydroperoxides catalyzed by transition metal compds. They were somewhat less reactive than peracids, but also more thermally stable. Initial efforts to formulate XAEs with transition metal complexes in order to speed reaction of mustard simulants and attack refractory organophosphorus simulants were unsuccessful. It was found that the reactive peroxide groups formed by ozonolysis improved the ability of XAE resins to reduce vapor outgassing of mustard simulants, especially at elevated temperature, compared to untreated resins.

ANSWER 41 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:704931 CAPLUS

DOCUMENT NUMBER: 123:85261

Polymer supported bromates as new, versatile and TITLE:

efficient oxidizing reagents for various organic

compounds

AUTHOR(S): Tamami, B.; Zarchi, M. A. Karimi

CORPORATE SOURCE: Dep. Chem., Shiraz University, Shiraz, Iran SOURCE:

European Polymer Journal (1995), 31(8), 715-17

CODEN: EUPJAG; ISSN: 0014-3057

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE: English

Crosslinked poly(4-vinyl-pyridinium)bromate [P4Br(v)] and Amberlite IRA-400 supported bromate [Ps-Br(v)] were prepared and used as oxidizing reagents. Polymer [P4-Br(v)] is more reactive and [Ps-Br(v)] is more selective; both can be regenerated. The Ps-Br(v) is active only in the

presence of a catalytic amount of a Lewis acid.

ANSWER 42 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:667371 CAPLUS

DOCUMENT NUMBER:

TITLE: Method for polymer formation from wastes

PATENT ASSIGNEE(S): Natdevco N.V., Neth. Antilles

SOURCE: Belg., 26 pp.

CODEN: BEXXAL

DOCUMENT TYPE: Patent LANGUAGE: Dutch FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE BE 1006920 A3 19950124 BE 1993-247 19930306 PRIORITY APPLN. INFO.: BE 1993-247 19930306

In this process, in which the liquid and solid waste are separated from each other and reaction components added for forming, and becoming part of, a polymer matrix, the liquid waste is further separated into a 1st group having pH ≤7 and a 2nd group having pH >7, after which the waste is treated in a 3-stage process. The 1st stage comprises forming a 1st mixture by checking whether the liquid of the 1st group has pH \leq 5 and acidifying the liquid to pH ≤5 when the pH is >5, adding an oxidant to the liquid, checking whether the liquid of the 1st group contains a predetd. 1st amount of metal-containing precipitate-forming reagents, and adding salts of metal-containing precipitate-forming reagents when those reagents are not present. The 2nd stage comprises forming a 2nd mixture of the solid waste and the liquid from the 2nd group, checking whether this mixture has $pH \ge 8$, and adding base to obtain pH ≥8 when pH <8. The 3rd stage comprises forming a 3rd mixture by combining the 1st and 2nd mixture, checking whether this mixture has pH >7, and adding base to obtain pH >7 when pH <7, and adding the above-mentioned reaction components to the mixture This method permits treatment of different types of waste.

L1 ANSWER 43 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:450225 CAPLUS

DOCUMENT NUMBER: 123:146451

TITLE: Present status and developmental prospects of antifelt

finishing of wool fabrics

AUTHOR(S): Jovancic, Petar; Jocic, Dragan; Trajkovic, Rista

CORPORATE SOURCE: TMF, Belgrade, Yugoslavia

SOURCE: Hemijska Vlakna (1994), 34(1-4), 35-46

CODEN: HEVLA7; ISSN: 0367-5793

PUBLISHER: Viskoza-Sektor Razvoja DOCUMENT TYPE: Journal; General Review

LANGUAGE: Serbo-Croatian

This paper reviews with 68 refs. the presents state and development of processes for the antifelt finishing of wool in various forms. It describes the application of oxidizing agents and polymers, as well as chlorination polymer processes with particular emphasis on the processes for the production of SUPERWASH wool which have reached com. use. The text is concentrated on major developments, although some special processes and relevant machine developments are discussed. The future trends and new developments are reviewed, particularly process based on treating the wool with enzymes as an alternative to today's conventional methods.

L1 ANSWER 44 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:419752 CAPLUS

DOCUMENT NUMBER: 122:188194

TITLE: Direct synthesis of conducting polymers from simple

monomers

AUTHOR(S): Toshima, Naoki; Hara, Susumu

CORPORATE SOURCE: Department of Applied Chemistry, University of Tokyo,

Tokyo, 113, Japan

SOURCE: Progress in Polymer Science (1995), 20(1), 155-83

CODEN: PRPSB8; ISSN: 0079-6700

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 252 refs. on the polymerization of simple monomers using oxidizing agents and/or catalysts to enable mass production of conductive polymers. Preparation of polyphenylene, polypyrrole, polythiophene, and polyaniline is reviewed and discussed with respect to preparation methods, catalytic activities, and properties of the obtained polymers.

L1 ANSWER 45 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:552170 CAPLUS

DOCUMENT NUMBER: 121:152170

TITLE: Preparation of extracellular tyrosinase and synthesis

of polyphenolic polymers with the enzyme

INVENTOR(S): Della-Cioppa, Guy Richard; Garger, Stephen John, Jr.;

McCulloch, Michael Jay; Mcculloch, Michael Jay;

Sverlow, Genadie Gleb

PATENT ASSIGNEE(S): Biosource Genetics Corp., USA

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT NO.							API	PLICAT	ION NO	Э.		D	ATE		
WO	9412644			A2		19940	609	WO	1993-	US113	- - 59		1	9931	122	
WO	9412644			А3		19950	504									
	W: AU,	CA,	JP,	KR												
	RW: AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, GF	R, IE,	IT,	LU,	MC,	NL,	PT,	SE	
US	5340734			Α		19940	823	US	1992-	98209	5		1	9921	125	
ZA	5340734 9308581 5466592			Α		19950	221	ZA	1993-	8581			1	9931	117	
US	5466592			Α		19951	114	US	1993-	15417	1		1	9931	117	
US	5792649			. A		19980	811	US	1993-	15428	3		1	9931	117	
	2149764															
CA	2149764			С		20000	808									
ΑU	9458965			A1		19940	622	AU	1994-	58965			1	9931	122	
ΑU	689093			В2		19980	326									
ΕP	672148			A1		19950	920	EP	1994-	90531	7		1	9931	122	
	R: AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, GF	R, IE,	IT,	LI,	LU,	MC,	NL,	PT,	
IL	107724			A1		20010	614	IL	1993-	10772	4		1	9931	123	
$_{ m IL}$	123778			A1		20021	201	${ t IL}$	1993-	12377	8		1	9931	123	
IL	123780			A1		20030	312	${\tt IL}$	1993-	12378	0		1	9931	123	
	5486351															
US	5801047			Α		19980	901	US	1995-	47199	3		1	9950	606	
	APPLN.							US	1992-	98209	5	Α	. 1	9921	125	
									1 000	1 5 400	~	_				
								WO IL	1993-	US113	59	W	1	9931	122	
								IL	1993-	10772	4	A	3 1	9931	123	

AB A stable, highly active extracellular tyrosinase is produced from genetically transformed microorganism such as Streptomyces antibioticus. The enzyme is used for the production of chemical modified polyphenolic polymer (PPP) by reacting a substrate such as 1-tyrosine, hydrolyzed protein, or an oligopeptide in combination with 1-tyrosine. Production of tyrosinase with Streptomyces antibioticus transformed with pBS1082S and production of PPP in vitro in organic solvents or in vivo in aqueous solution were shown.

L1 ANSWER 46 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1994:460799 CAPLUS

DOCUMENT NUMBER:

121:60799

TITLE:

SOURCE:

Pyrotechnic sheet materials, their manufacture, and inflators for vehicle occupant restraint systems

comprising the sheet materials

INVENTOR(S):

Graham, Steven John; Leiper, Graeme Allen; Bishop,

Charles Arthur

PATENT ASSIGNEE(S):

Imperial Chemical Industries PLC, UK

Brit. UK Pat. Appl., 15 pp.

CODEN: BAXXDU

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DA	TE A	PPLICATION NO.	DATE
GB 2269380 GB 2269380		940209 GE	B 1993-14607	19930714
EP 584921 EP 584921	A2 19		P 1993-305520	19930714
EP 584921	B1 19	961009		
R: BE, DE, ES, ES 2092230	T3 19		S 1993-305520	19930714
ZA 9305322 CA 2101621			A 1993-5322 A 1993-2101621	19930722 19930729
JP 06172076	A2 19	940621 JI	P 1993~187989	19930729

AU 1993-44459 AU 9344459 A1 19940210 19930804

AU 662435 B2 19950831

PRIORITY APPLN. INFO.: GB 1992-16517

The sheet materials comprise a substrate of an oxidizing polymeric film, e.g., halogenopolymer film, coated on ≥1 sides with a layer of oxidizable material, e.g., Mg. Upon ignition, the substrate is capable of exothermically reacting with the oxidizable material. The oxidizable material is covered with an overlying protective barrier layer of passivating material comprising a passive metal or an oxide of a passive metal. The barrier layer is effective to extend the storage life of the pyrotechnic sheet material by providing a dense non-porous oxide layer that prevents oxidation of the oxidizable material until ignition of the pyrotechnic sheet material occurs.

ANSWER 47 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:438739 CAPLUS

DOCUMENT NUMBER: 121:38739

TITLE: Pyrotechnic sheet materials, their manufacture, and

inflators for vehicle occupant restraint systems

comprising the sheet materials

INVENTOR(S): Kwan, Chan Sek; Graham, Steven John; Leiper, Graeme

PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK; ICI Canada Inc.

Brit. UK Pat. Appl., 14 pp. SOURCE:

CODEN: BAXXDU

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2269379	A1	19940209	GB 1993-14576	19930714
EP 584922				
	A2	19940302	EP 1993-305521	19930714
EP 584922	A3	19941109		
EP 584922	В1	19961106		
R: BE, DE, ES,	FR, GB	, IT, SE		
ES 2095012	т3	19970201	ES 1993-305521	19930714
ZA 9305321	Α	19940518	ZA 1993-5321	19930722
CA 2101624	AA	19940207	CA 1993-2101624	19930729
JP 06172077	A2	19940621	JP 1993-192187	19930803
AU 9344490 .	A1	19940210	AU 1993-44490	19930805
AU 661786	B2	19950803		
US 5518807	Α	19960521	US 1993-102779	19930806
PRIORITY APPLN. INFO.:			GB 1992-16720	A 19920806

The materials comprise a substrate of porous, vapor-permeable oxidizing polymeric film, e.g., halopolymeric film, especially PTFE, coated on ≥1 sides with a layer of oxidizable material, e.g., Mg. The substrate and the oxidizable material are conjointly capable of reacting together upon ignition. Advantageously, at least part of the oxidizing material is accommodated within the pores of the polymer. The pyrotechnic sheet materials burn faster than materials comprising a solid polymeric film, due to the increased surface area caused by the pores of contact of the substrate and the oxidizable material. Prior to coating the substrate with the oxidizable material, the pores may be partially filled with an incendiary material, e.g., NaN3.

ANSWER 48 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:38171 CAPLUS

DOCUMENT NUMBER:

TITLE: Poly(vinylpyridine N-oxide) supported dichromates as

new effective, mild and versatile oxidizing reagents

for various organic compounds

AUTHOR(S): Tamami, B.; Goudarzian, N.

CORPORATE SOURCE: Dep. Chemistry, Shiraz Univ., Shiraz, Iran SOURCE:

European Polymer Journal (1992), 28(9), 1035-8

CODEN: EUPJAG; ISSN: 0014-3057

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 118:38171 AΒ Poly(vinylpyridine N-oxide) supported dichromates are readily prepared and used as new efficient oxidizing reagents for alcs., oximes, amines, and thiols. In contrast to the monomeric analog, pyridine N-oxide dichromate, these reagents are quite stable, have easier reaction work-up, and can be regenerated. Poly(2-vinylpyridine N-oxide) supported dichromate is more efficient than its poly(4-isomer).

ANSWER 49 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:427799 CAPLUS

DOCUMENT NUMBER: 117:27799

TITLE: Preparation of a macroporous polymer-bound N-oxide and

its use as an oxidizing agent in oxidizing primary

halides to aldehydes

Chen, Jiawei; Wu, Yumin AUTHOR(S): CORPORATE SOURCE:

Dep. Chem., Hubei Univ., Wuhan, 430062, Peop. Rep.

China

SOURCE: Lizi Jiaohuan Yu Xifu (1991), 7(4), 254-60

CODEN: LJYXE5; ISSN: 1001-5493

DOCUMENT TYPE: Journal LANGUAGE: Chinese

Macroporous polymer-bound tert-amine oxide, prepared from anionic exchanger D301, oxidizes primary primary alkyl iodides, bromides, allylic and benzoic halides to aldehydes with excellent yields as well as bibromides selectively to monoaldehyde. Only halogen bound end is oxidized when halogen atom and other groups coexist. The oxidizing resin can be regenerated 3 times without notable changes in its activity.

ANSWER 50 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:409358 CAPLUS

DOCUMENT NUMBER: 117:9358

TITLE: _Oxidizing agents immobilized on polymers

AUTHOR(S): Taylor, R. G.

CORPORATE SOURCE: USSR

SOURCE: Polimer. Reagenty i Katalizatory, M. (1991) 107-25

From: Ref. Zh., Khim. 1991, Abstr. No. 20S510

DOCUMENT TYPE: LANGUAGE: Russian

Title only translated.

ANSWER 51 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:236308 CAPLUS

DOCUMENT NUMBER: 116:236308

TITLE: Preparation of poly(methyl methacrylate)-based resins

with bound chromium(VI) reagents and their use as

oxidizing agents

AUTHOR(S): Hassanein, M.; Aly, El Saied A.; Abbas, Y. A.;

El-Sigeny, Samia M.

CORPORATE SOURCE: Fac. Sci., Tanta Univ., Tanta, Egypt

SOURCE: European Polymer Journal (1992), 28(4), 411-13

CODEN: EUPJAG; ISSN: 0014-3057

DOCUMENT TYPE: Journal LANGUAGE: English

Insol. polymeric dichromate and chlorochromate reagents were prepared by modification of Me methacrylate-divinylbenzene copolymer beads with ethylenediamine followed by treatment of the resulting resin with excess

MeI and subsequent reaction with aqueous CrO3 or CrO3 and benzyltriethylammonium chloride. These polymeric reagents selectively

oxidized alcs. to the corresponding carbonyl compds. In addition to easy work-up of the reaction mixture, the resulting polymeric byproduct could be simply regenerated and re-used.

ANSWER 52 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:197456 CAPLUS

DOCUMENT NUMBER: 116:197456

TITLE: Redox gel process for more uniform fluid flow in

formations

INVENTOR(S): Cayias, John L.; Holley, Susan M.; Lichtenberger,

Gunter J.

PATENT ASSIGNEE(S): Oryz Energy Co., USA

SOURCE: U.S., 8 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 5035287 A 19910730 US 1990-559612 19900730
PRIORITY APPLN. INFO.: US 1990-559612 19900730

B A metal-containing oxidizing solution, e.g., air, oxygen, or H2O2 containing metals at a valence state >3+, such as Mo, Mn, Nb, Ir, Ce, or Bi, is injected through wellbores and reacts in a subterranean reservoir which has a naturally-occurring reduction capacity to form a slightly soluble compound of metal having a valance of +3. The metal is used to crosslink a water soluble polymer, e.g, polyacrylamide, which is injected into the metal containing pore volume, thus decreasing flow in the treated portion of the reservoir.

L1 ANSWER 53 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:247938 CAPLUS

DOCUMENT NUMBER: 114:247938

TITLE: Polymer-supported analogs of halogeno-sulfonamides

preparation and applications in synthetic organic

chemistry

AUTHOR(S): Salunkhe, M. M.; Mane, R. B.; Kanade, A. S.

CORPORATE SOURCE: Dep. Chem., Shivaji Univ., Kolhapur, 416004, India

SOURCE: European Polymer Journal (1991), 27(6), 461-3

CODEN: EUPJAG; ISSN: 0014-3057

DOCUMENT TYPE: Journal LANGUAGE: English

AB Crosslinked polymer-supported analogs of halogeno-sulfonamides were prepared and developed as a new class of recyclable solid-phase oxidizing and halogenating reagents. Introduction of sulfonamide group in polystyrene resin was conveniently done by chlorosulfonation followed by amidation. Halogeno-sulfonamides were obtained by treatment of sodium hypohalite with sulfonamide resin. These reagents oxidized primary and secondary alcs. and also halogenated various compds. The spent polymeric reagent can be regenerated in a single step many times without loss of capacity.

L1 ANSWER 54 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:186348 CAPLUS

DOCUMENT NUMBER: 114:186348

TITLE: Inhibition of polymer scale adhesion to polymerization

apparatus

INVENTOR(S): Kaneko, Ichiro; Ueno, Susumu; Watanabe, Mikio PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02292303 JP 06099489	A2 B4	19901203 19941207	JP 1989-113053	19890502

PRIORITY APPLN. INFO.: JP 1989-113053 19890502

AB Apparatus for the polymerization of ethylenically unsatd. monomers is treated with solns. containing aromatic amines and oxidizing agents in Broensted acids to prevent the adhesion of polymer scales to the inner wall of the apparatus Thus, a 20-L reactor was treated with a solution containing aniline 0.01, ammonium persulfate 0.024, and H2SO4 0.02% for 8 h, washed, and used to prepare a polymer with amount of adhesion of scale 80 g/m2, vs. 1150 g/m2 without the treatment.

L1 ANSWER 55 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:23454 CAPLUS

DOCUMENT NUMBER: 114:23454

TITLE: High-molecular-weight reagents in organic synthesis.

VIII. Polymer-supported quaternary pyridinium salts

in organic synthesis

AUTHOR(S): Jakobsone, I.; Klavins, M.; Volkovs, U.; Briede, N.;

Zicmanis, A.

CORPORATE SOURCE: Latv. State Univ., Riga, USSR

SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija

(1990), (4), 478-82

CODEN: LZAKAM; ISSN: 0002-3248

DOCUMENT TYPE: Journal LANGUAGE: Russian

AB Copolymers of 2-methyl-5-vinylpyridine with divinylbenzene were quaternized by MeI and then coverted by anion exchange to the polymeric pyridinium bromates, chromate, iodate, periodate, nitrate, phenoxide, cyanate, and thiocyanate. These polymeric reagents were used to oxidize alcs. and aldehydes and to substitute Cl in PhCH2Cl with NO2, OPh, SCN,

L1 ANSWER 56 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:7656 CAPLUS

DOCUMENT NUMBER: 114:7656

TITLE: Study on selective oxidation of α, β -

unsaturated alcohols - synthesis of two new types of

polymer-supported oxidizing reagents and their

excellent selectivity

AUTHOR(S): Yang, Huirong; Li, Bina; Lu, Qiansheng

CORPORATE SOURCE: Dep. Chem. Eng., Guandong Inst. Technol., Guangzhou,

Peop. Rep. China

SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1990), 11(7), 759-61

CODEN: KTHPDM; ISSN: 0251-0790

DOCUMENT TYPE: Journal LANGUAGE: Chinese

AB Tertiary amine- and quaternary ammonium-type divinylbenzene-styrene copolymers were prepared and used as supports for CrO3 oxidizing agents for unsatd. alcs. The supported oxidizing agents successfully oxidized

 α , β -unsatd. alcs. into the corresponding α , β -unsatd.

aldehydes, but could not oxidize the saturated alcs. under similar conditions.

L1 ANSWER 57 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:621415 CAPLUS

DOCUMENT NUMBER: 113:221415

TITLE: Fixed photothermographic materials and their

preparation

INVENTOR(S): Ogawa, Shuichiro; Hayashi, Yoshio

PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 02143243 A2 19900601 JP 1988-296027 19881125

PRIORITY APPLN. INFO.: JP 1988-296027 19881125

AB In the title material made from a photothermog. material in which the surface layer of a heat-developable dry Ag salt composition based on an organic Ag salt oxidizing agent, a polymer, a reducing agent, and Ag halides or Ag halide-forming components contains a small

amount of Ag metal seeds or seeds of a metal which is nobler than Ag, the fixed photothermog. material is prepared by allowing the Ag of the exposed area to sep. in the inner part of the heat-developable dry Ag salt composition and the Ag of the unexposed area and the Ag of the exposed area which does'nt contribute to images to sep. simultaneously in the surface layer of the Ag salt composition and phys. removing the Ag separated on the surface. The title manufacturing is effected by heat-developing an exposed photothermog. material and removing phys. the Ag separated on the surface layer.

L1 ANSWER 58 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1990:516739 CAPLUS

DOCUMENT NUMBER: 113:116739

TITLE: Forming smooth surfaces on articles from polymers of

ethylene, propylene, butadiene, or styrene

Eschwey, Manfred; Van Bonn, Rolf; Neumann, Horst

PATENT ASSIGNEE(S): Messer Griesheim G.m.b.H., Germany

SOURCE: Ger. Offen., 5 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

INVENTOR(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				·
DE 3840269	A1	19900531	DE 1988-3840269	19881130
DE 3840269	C2	19901129		
EP 372207	A2	19900613	EP 1989-119674	19891024
EP 372207	A3	19910130		
EP 372207	B1	19950215		
R: DE, ES, FR,	GB, IT	', SE		
ES 2070158	T3	19950601	ES 1989-119674	19891024
JP 02269134	A2	19901102	JP 1989-307817	19891129
JP 3004294	B2	20000131		
DIMU ADDIN THE			DE 1000 2040060	

PRIORITY APPLN. INFO.: DE 1988-3840269 In the title process, which minimized the active surface for very slight interactions with media, the polymer surfaces are treated with gases containing F and oxidizing agents. A 500-mL HDPE bottle (with a matte surface having roughness $1.7-3.5 \mu m$) was treated in an autoclave at a surface temperature of ~135° with N containing 0.2% F and 1.3% O to give a glossy surface with roughness 0.58 µm.

ANSWER 59 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:157314 CAPLUS

DOCUMENT NUMBER: 112:157314

TITLE: Polymer-supported persulfonic acid as oxidizing agent

AUTHOR(S): Pande, C. S.; Jain, N.

CORPORATE SOURCE: Dep. Chem., H. P. Univ., Shimla, 171 005, India SOURCE: Synthetic Communications (1989), 19(7-8), 1271-9

CODEN: SYNCAV; ISSN: 0039-7911

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:157314

A polymer-supported persulfonic acid has been prepared and applied to the oxidation of carboxylic acids, ketones, olefins, and disulfide bonds of cystine and cytsinyl peptides to their peracids, esters (lactones), epoxides and sulfonic acid derivs., resp., in good yields. The resin also effectively removed the formyl protection from formyl amino acids. Spent polymer was reactivated by simple reactions.

ANSWER 60 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:94115 CAPLUS

DOCUMENT NUMBER: 110:94115

TITLE: Polymer-supported cation radicals AUTHOR(S): Wright, Michael E.; Jin, Myung Jong

CORPORATE SOURCE: Dep. Chem. Biochem., Utah State Univ., Logan, UT,

84322-0300, USA

SOURCE: Journal of Organic Chemistry (1989), 54(4), 965-8

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:94115

Reaction of chloromethylated polystyrene beads with Ph3N and Et2AlCl gave a highly cross-linked polymer. The chloromethylated polystyrene was modified by reaction with 2,6-dibromocarbazole and K2COo in DMF at $100\,^{\circ}$ to give an excellent yield of polymer-supported 2,6-dibromocarbazole without concomitant crosslinking. The polymer-bound 2,6-dibromocarbazole was nonreactive toward SbCl5, whereas 9-N-benzyl-2,6-dibromocarbazole readily generated the aminium cation radical upon reaction with SbCl5. Attachment of phenothiazine to a polystyrene support gave a reagent that reacted very rapidly with SbCl5 in CH2Cl2. The polymer-bound phenothiazine cation radical readily oxidized the metal-metal bond in [C5H5Fe(CO)2]2 (C5H5 = cyclopentadienyl) and underwent anion exchange with Bu4NPF6 to afford a more synthetically useful reagent.

ANSWER 61 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN L1

ACCESSION NUMBER: 1988:632446 CAPLUS

DOCUMENT NUMBER: 109:232446

TITLE: Preparation of electrically conductive polymeric

materials

INVENTOR(S): Kato, Ryoichi; Hiraoka, Kazuyuki; Masuhara, Kenichi

PATENT ASSIGNEE(S): Nisshin Steel Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION: _____

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63184211 PRIORITY APPLN. INFO.:	A2	19880729	JP 1987-15675 JP 1987-15675	19870126 19870126

AB Products having good elec. conductivity without impairing mech. strength and processability are prepared, without adding any elec. conductive fillers, from polymers containing oxidizing agents by exposure to a plasma of unpolymerizable gases and contact with electrochem. polymerizable monomers to form elec. conductive surface layers. PMMA containing 30% FeCl3 was extruded to give a sheet, which was exposed 10 min to an Ar plasma (1.0 torr Ar gas, 13.56 MHz, 50 W) and contacted for 10 min with pyrrole vapor to give a sheet having surface resistivity (3-5) x 104 Ω , vs. 106-108 Ω for a sheet prepared without the plasma treatment.

ANSWER 62 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN L1

ACCESSION NUMBER: 1987:17589 CAPLUS

DOCUMENT NUMBER: 106:17589

TITLE: Polymer-supported diaryl selenoxide and telluroxide as

mild and selective oxidizing agents

AUTHOR(S): Hu, Nan Xing; Aso, Yoshio; Otsubo, Tetsuo; Ogura,

Fumio

CORPORATE SOURCE: Fac. Eng., Hiroshima Univ., Hiroshima, 724, Japan

SOURCE: Bulletin of the Chemical Society of Japan (1986),

59(3), 879-84

CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:17589

Polystyrene-bound diaryl selenoxide and telluroxide were prepared and used as mild oxidizing agents for thiols to disulfides, phosphines to phosphine oxides, hydroquinone and catechol to p- and o-benzoquinones, and thio ketones to oxo compds. The telluroxide completed these reactions in shorter periods or under milder conditions than the selenoxide. In addition, they effected novel solvent-dependent reactions of thio amides involving thioureas to 1,2,4-thiadiazoles or to nitriles. In nonacidic solvents, dehydrosulfurization to nitriles occurred in preference to oxidative dimerization to 1,2,4-thiadiazoles, but an acidic solvent such as AcOH promoted the latter reaction.

ANSWER 63 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN L1

ACCESSION NUMBER: 1986:515227 CAPLUS

DOCUMENT NUMBER: 105:115227

TITLE: Polymer-supported chromium trioxide reagent for the

synthesis of camphor

AUTHOR(S): Li, Mingqian; Ran, Ruicheng; Jia, Xinru

CORPORATE SOURCE: Dep. Chem., Beijing Univ., Beijing, Peop. Rep. China

SOURCE: Huaxue Tongbao (1985), (12), 15-16

CODEN: HHTPAU; ISSN: 0441-3776

DOCUMENT TYPE: Journal LANGUAGE: Chinese

Polymer-supported CrO3 was prepared and used in the oxidation of isoborneol to

camphor. The life, activation, and regeneration of the reagent were studied.

L1 ANSWER 64 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:110633 CAPLUS

DOCUMENT NUMBER: 104:110633

TITLE: Surface pretreatment of polymers with fluorine

AUTHOR(S): Milker, R.

CORPORATE SOURCE: Lohmann G.m.b.H. und Co. K.-G., Neuwied, D-5450, Fed.

Rep. Ger.

SOURCE: Coating (1985), 18(11), 294, 296-8

CODEN: COTGAV; ISSN: 0590-8450

DOCUMENT TYPE: Journal; General Review

LANGUAGE: German

AB A review with 15 refs. of surface oxidation by F pretreatment of polymeric

web-forming materials for improved adhesion. The process of surface

fluorination including the apparatus, its advantages, and F pretreatment of a

foam web are reviewed.

L1 ANSWER 65 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:454778 CAPLUS

DOCUMENT NUMBER: 103:54778

TITLE: Nonlinear dependence of the limiting current on

concentration in charge injection into thin polymer

films

AUTHOR(S): Khatiashvili, A. A.

CORPORATE SOURCE: Inst. Kibern., Tbilisi, USSR

SOURCE: Elektrokhimiya (1985), 21(4), 567-9

CODEN: ELKKAX; ISSN: 0424-8570

DOCUMENT TYPE: Journal LANGUAGE: Russian

AB Two extreme cases are distinguished in the dependence of the limiting

elec. current (i0) on the concentration of oxidizing agent (c), e.g. Ce4+, during the injection of holes in insulators through electrochem. contacts: (1) i0 is proportional to c (e.g., anthracene single crystals), and (2) i0 is proportional to c0.5. In thin polymer films, e.g. terylene and Ftoroplast [9039-02-5], the slope of log i0 vs. log c plot varies from 0.5 to 0.75.

L1 ANSWER 66 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:52530 CAPLUS

DOCUMENT NUMBER: 100:52530

TITLE: High-molecular weight thallium(III) sulfonates

PATENT ASSIGNEE(S): Asahi-Dow Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE -----____ ----------JP 58129005 A2 19830801 JP 1982-10206 19820127 PRIORITY APPLN. INFO.: JP 1982-10206

AB Tl(III) salts of sulfonated polymers (prepared from low-mol. weight Tl salts) are oxidizing agents for unsatd. compds. Thus, 10 g Nafion was converted to 72% Tl salt by heating with 1.48 g Tl(NO3)3.3H2O in 1N HNO3. Tl salts of Amberlite 200 C, sulfonated ethylene-vinyl acetate copolymer, and sulfonated ethylene-methacrylic acid copolymer were similarly prepared using Tl nitrate, acetate, or trifluoroacetate. Substrates oxidized included α -methylstyrene [98-83-9], cyclohexene [110-83-8], and 2-heptene [592-77-8].

L1 ANSWER 67 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:545981 CAPLUS

DOCUMENT NUMBER: 97:145981

TITLE: A heat exchanger having a plastic membrane

INVENTOR(S): Smith, John; Boiston, David Anthony

PATENT ASSIGNEE(S): Courtaulds PLC, UK SOURCE: Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

surface.

CORPORATE SOURCE:

AUTHOR(S):

SOURCE:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 56705	A2	19820728	EP 1982-300170	19820113
EP 56705	A3	19820804		
EP 56705	B1	19840926		*
R: BE, DE, FR,	GB, IT	, NL		
WO 8202427	A1	19820722	WO 1982-GB6	19820114
W: JP, US				
PRIORITY APPLN. INFO.:			GB 1981-1262 A	19810115
			EP 1982-300170 A	19820113

A 19820113 AB Polymer membranes for use in heat exchangers and having high wettability are prepared by treating the membrane with an oxidizing agent. Thus, a heat exchange tube of low d. polyethylene [9002-88-4] was treated 1 min with 50% SO3 in air at 55°. The treated outer surface had surface tension >72 dynes/cm compared with 31 dynes/cm for the untreated inner

ANSWER 68 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

1982:544292 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 97:144292

TITLE: Polymeric reagents. V. Preparation of a new

recyclable polymeric oxidizing agent for the oxidation

of halides and tosylates into carbonyl compounds Frechet, Jean M. J.; Darling, Graham; Farrall, M. J. Dep. Chem., Univ. Ottawa, Ottawa, ON, K1N-9B4, Can. Polymer Preprints (American Chemical Society, Division

of Polymer Chemistry) (1980), 21(2), 270-1

CODEN: ACPPAY; ISSN: 0032-3934

DOCUMENT TYPE: Journal LANGUAGE: English

'AΒ Polystyrene-bound trimethylamine oxide (I) was prepared by aminating chloromethylated polystyrene and oxidizing with H2O2. I oxidized bromoalkanes, iodoalkanes, and tosylalkanes to the carbonyl compds. in high yields. The reagent could be recycled without loss of activity.

ANSWER 69 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:408039 CAPLUS

DOCUMENT NUMBER: 97:8039

TITLE: Applicability of oxidative systems to initiate

grafting on and bonding of wood

AUTHOR(S): Philippou, John L.

CORPORATE SOURCE: Forest Prod. Lab., Univ. California, Richmond, CA, USA SOURCE:

Journal of Wood Chemistry and Technology (1981), 1(2),

199-221

CODEN: JWCTDJ; ISSN: 0277-3813

DOCUMENT TYPE: Journal LANGUAGE: English

In the preparation of particleboard, plywood, and laminated panels, surface treatment with H2O2, peroxyacetic acid, HNO3, K3Fe(CN)6, and NaCr2O7 increased the internal bond (IB) strength and reduced thickness swelling (TS) and H2O absorption of boards containing furfuryl alc. (I), NH4 lignosulfonate (II)-maleic anhydride, -H2CO or -I mixture, and PhOH-I mixture, indicating that in the presence of the oxidants, these polymerizable chems. provide effective chemical bridges between wood surfaces. For the H2O2-II-II, IB strength, modulus of rupture, and elasticity increased whereas TS and H2O absorption decreased with increasing particleboard d. in the range 0.58-0.80 g/cm3. In the grafting of I, II, and I-II mixture on firwood chips in the presence of H2O2, grafting percentage increased with increasing H2O2 concentration

ANSWER 70 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN L1

ACCESSION NUMBER: 1982:162257 CAPLUS

DOCUMENT NUMBER: 96:162257

TITLE: Polymer-supported periodate and iodate as oxidizing agents

AUTHOR(S): Harrison, Charles R.; Hodge, Philip

CORPORATE SOURCE: Dep. Chem., Univ. Lancaster, Lancaster, LA1 4YA, UK Journal of the Chemical Society, Perkin Transactions SOURCE:

1: Organic and Bio-Organic Chemistry (1972-1999)

(1982), (2), 509-11

CODEN: JCPRB4; ISSN: 0300-922X

Journal DOCUMENT TYPE: LANGUAGE: English

CASREACT 96:162257 OTHER SOURCE(S):

Periodate forms of macroporous anion-exchange resins were used in protic or aprotic solvents to oxidize quinols, catechols, glycols, Ph3P, (PhNH)2, and PhCONHOH. E.g., treatment of 2-chloroquinol with the periodate form of Amberlyst A26 in CHCl3 for 1 h at 20° gave 96% of

2-chloro-p-benzoquinone. In MeOH, the reagents oxidized thio ethers. Thus, treatment of (PhCH2)2S in MeOH with Amberlyst A26 periodate for 16 h at 40° gave 99% (PhCH)2SO. Polymer-supported iodate also oxidized

quinols and catechols.

ANSWER 71 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:176242 CAPLUS

DOCUMENT NUMBER: 94:176242

TITLE: Poly(vinylpyridinium dichromate): an inexpensive

recyclable polymeric reagent

AUTHOR(S): Frechet, Jean M. J.; Darling, Pauline; Farrall, M.

CORPORATE SOURCE: Dep. Chem., Univ. Ottawa, Ottawa, ON, K1N 9B4, Can. SOURCE:

Journal of Organic Chemistry (1981), 46(8), 1728-30

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: English

A reagent containing dichromate reactive groups was prepared by reaction of divinylbenzene-crosslinked poly(vinylpyridine) with 0.5 molar equivalent of H2O and 1 molar equivalent of Cr2O3. The resulting poly(vinylpyridinium dichromate) resin was very stable and could be used in wet form to oxidize alcs. into the corresponding carbonyl compds. The oxidizing agent was tested with benzylic, allylic, primary and secondary alcs.; in all cases no products of overoxidn. were detected. The main advantages of the reagent are that it can be prepared safely and in quant. yield using molar amts. of a com. available resin, and that it retains firmly all complexed Cr salts in oxidized as well as in reduced forms. Molar ratios of oxidizing agent to alc. as low as 1.1:1 can be used, although, with the less reactive alcs., higher molar ratios are advisable to increase the rate of reaction. The polymer is regenerable without apparent loss of activity.

ANSWER 72 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN L1

ACCESSION NUMBER: 1.980:147822 CAPLUS

DOCUMENT NUMBER: 92:147822

TITLE: Bromination of crosslinked vinylaromatic copolymer

INVENTOR(S): Herbin, J.; De Koker, J.; Prsle, P.; Giuliani, M.;

Drode, T.; Boutier, J.; Grammont, P.

PATENT ASSIGNEE(S):

SOURCE:

Dia-Prosim, Fr. Fr. Demande, 8 pp.

CODEN: FRXXBL

LANGUAGE:

Patent French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DOCUMENT TYPE:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2427343	A1	19791228	FR 1978-16244	19780531
FR 2427343	В1	19810410	•	
IN 151240	Α	19830312	IN 1979-CA544	19790528
AU 7947542	A1	19791206	AU 1979-47542	19790529
AU 527046	B2	19830210		
JP 54163993	A2	19791227	JP 1979-66718	19790529
JP 58014441	B4	19830319		

US 4246354 Α 19810120 US 1979-42784 19790529 CA 1149550 Α1 19830705 CA 1979-328534 19790529 ZA 7902692 19800625 ZA 1979-2692 Α 19790530 PRIORITY APPLN. INFO.: FR 1978-16244 A 19780531

Particles of crosslinked divinylbenzene-styrene copolymer (I) are brominated with Br or KBr in the presence of catalysts (e.g., Fe SO4) and oxidizing agents (e.g., H2SO4). The oxidizing agent oxidizes HBr formed during bromination, preventing the evolution of HBr and minimizing the consumption of brominating agent. Brominated I has a high d. and is used to prepare ion exchangers. Thus, 52 g 3:97 I (particle size 0.55 mm, d. 1.10), 25 mL C2H4C12, 0.01 mol FeSO4, and 150 mL 95% H2SO4 are treated slowly with 13 mL Br at 30°, chloromethylated, and aminated to give an ion exchanger with exchange capacity 3.90 equiv/kg and d. 1.228.

ANSWER 73 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:40321 CAPLUS

DOCUMENT NUMBER: 90:40321

TITLE: Coating metals

INVENTOR(S): Steinbrecher, Lester; Hall, Wilbur S.

Amchem Products, Inc., USA PATENT ASSIGNEE(S):

SOURCE: U.S., 16 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4104424	A	19780801	US 1974-499039	19740820
US 3585084	Α	19710615	US 1969-791801	19690116
US 4373050	A	19830208	US 1980-157526	19800609
PRIORITY APPLN. INFO.:			US 1966-554336	A2 19660601
			US 1969-791801	A3 19690116
			US 1971-113685	A2 19710208
			US 1974-499039	A3 19740820
			US 1978-904019	A1 19780508

AB Steel is dipped in acidic aqueous polymeric coating dispersions containing oxidizing agents and HF to provide nonelectrophoretic coatings whose thickness increases with increasing immersion time. Thus, steel panels were immersed 2 min at 25° in 1 L aqueous composition containing butadiene-styrene copolymer [9003-55-8] 50, H202 1.5, and HF 2.1 g and dried with or without rinsing to provide coatings with excellent adhesion.

ANSWER 74 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:123918 CAPLUS

DOCUMENT NUMBER: 86:123918

Solid propellant TITLE:

PATENT ASSIGNEE(S): Rockwell International, Japan

SOURCE: Jpn. Tokkyo Koho, 6 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

P	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
		B4		JP 1966-59973	19660912	
	ITY APPLN. INFO.: Solid propellants ha	vina ac		JP 1966-59973 Operties and high loading	19660912	
а	are made from a fuel, oxidizing agent, and					
<pre>polymer binder prepared by reacting telechelic-type linear polybutadiene [9003-17-2] having terminal carboxy groups with</pre>						
<pre>vinylcyclohexene diepoxide [106-87-6] or 1,3-bis[3-(2,3-epoxy-</pre>						
p		NH4ClC		[] [126-80-7]. Thus, a 00, MAPO 5, and I-modif		

ACCESSION NUMBER: 1976:463998 CAPLUS

DOCUMENT NUMBER: 85:63998

TITLE: Insoluble oxidation reagent

INVENTOR(S): Weinshenker, Ned M.

Dynapol, USA PATENT ASSIGNEE(S): SOURCE: U.S., 6 pp. CODEN: USXXAM

Patent

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE -----____ _____ ______ -----US 3959190 19760525 US 1974-479654 Α 19740617 PRIORITY APPLN. INFO.: US 1974-479654 A 19740617

Polymeric sulfide oxidation reagents for the oxidation of alcs. are manufacture by treating brominated polystyrene [9003-53-6] with methyl disulfide [624-92-0]. Thus, polystyrene was brominated in the presence of thallic acetate and treated with methyl disulfide in the presence of BuLi to give a methylmercapto-modified polystyrene. The polymer product was treated with Cl and the sulfonium ion addition product was contacted with octanol

[111-87-5] to provide a 95% yield of octanal [124-13-0].

ANSWER 76 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN L1

ACCESSION NUMBER: 1970:44290 CAPLUS DOCUMENT NUMBER: 72:44290

TITLE: Oxidative coupling of some 2,6-disubstituted phenols

AUTHOR(S): Bruce, J. Malcolm; Paulley, S. E.

CORPORATE SOURCE: Dep. Chem., Univ. Manchester, Manchester, UK

SOURCE: Polymer (1969), 10(8), 701-5 CODEN: POLMAG; ISSN: 0032-3861

DOCUMENT TYPE: Journal LANGUAGE: English

The oxidative coupling of several 2,6-disubstituted phenols by means of O-CuCl-C5H5N, MnO2, Ag2O, and PbO2 to yield poly(phenylene eth ers) and/or 4,4'-diphenoquinones is described. Although there are exceptions, PbO2 is

the most generally useful oxidizing agent for

polymer formation; Ag20 is particularly useful for preparing

4,4'-diphenoquinones.

ANSWER 77 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1969:47023 CAPLUS

DOCUMENT NUMBER: 70:47023

TITLE: Formation of p-benzoquinones in the oxidation of

poly(phenylene ethers)

AUTHOR(S): Finkbeiner, Herman; Toothaker, Anne T.

CORPORATE SOURCE: Gen. Elec. Res. and Develop. Center, Schenectady, NY,

USA

SOURCE: Journal of Organic Chemistry (1968), 33(12), 4347-51

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: English

A number of oxidizing agents attack poly(phenylene ethers) in HOAc to produce

either 4-acetoxyphenols (I) or p-benzoquinones (II). The nature of the final product depends on the ratio of oxidizing agent

to polymer, since I are initially formed and subsequently

oxidized to II. A mechanism is proposed for the reaction. 12 references.

ANSWER 78 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1967:482458 CAPLUS

DOCUMENT NUMBER: 67:82458

TITLE: Preparation and polymerization of a sugar dithiol

AUTHOR(S): Whistler, Roy L.; Hoffman, Daniel Joseph

CORPORATE SOURCE: Purdue Univ., Lafayette, IN, USA

Journal of Polymer Science, Polymer Chemistry Edition SOURCE:

(1967), 5(8), 2111-17

CODEN: JPLCAT; ISSN: 0449-296X

DOCUMENT TYPE: Journal LANGUAGE: English AB 2,4-O-Benzylidene-1,6-dithiol-D-glucitol is prepared by nucleophilic displacement of tosyloxy groups from 3,5-di-O-acetyl-2,4-O-benzylidene-1,6di-O-tosyl-D-glucitol with thioacetate in N,N-dimethylformamide and deacetylation of the product. Oxidative polymerization with O and SeO2 produces film-forming disulfide polymers with intrinsic viscosities up to 0.41. Other oxidizing agents produce polymers of lower viscosity. Condensation of the dithiol with BzH also gives polymers of low viscosity.

ANSWER 79 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN L1

ACCESSION NUMBER: 1966:413200 CAPLUS

DOCUMENT NUMBER: 65:13200 ORIGINAL REFERENCE NO.: 65:2473b

TITLE: Paper from acrylonitrile polymer fibers

PATENT ASSIGNEE(S): Chemstrand Ltd.

SOURCE: 18 pp. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 664917		19651203	BE	
FR 1439376			FR	
PRIORITY APPLN. INFO.:			GB	19640603

19640603 Fibers formed from acrylonitrile (I) polymer containing at least 80 weight % of I are cut to a length of about 2.5 cm., treated at 10-100° with a solution of an oxidizing agent, such as KMnO4 or NaOCl, washed, and formed into sheets. The resultant paper has improved tear and burst properties.

L1ANSWER 80 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1963:27873 CAPLUS

DOCUMENT NUMBER: 58:27873 ORIGINAL REFERENCE NO.: 58:4706b-c

TITLE: Perfluorocarbon structures treated to promote adhesion

INVENTOR(S): Cheshire, John R.

PATENT ASSIGNEE(S): E. I. du Pont de Nemours & Co.

SOURCE: 6 pp. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. -------------------US 3063882 19621113 US 19580613 AΒ Films, sheets, tapes, or other shaped structures are heated to ≥150° in the presence of an oxidizing agent and an amine. Thereafter, excellent adhesion is obtained by cementing to any desired

surface. Thus, a film 0.002 in. + 1 in. + 4 in. of a copolymer (82-6% C2F4 and 14-18 C3F6) was put in a stainless-steel tube with 200 ml. EtNH2 and an air space. The tube was sealed and heated 6 hrs. at 200°. When removed, the film surface was wettable with H2O. The treated film was cemented to a Cu surface with R 313 epoxy resin adhesive and pressed 30 min. at 100° under 75 lb./sq. in. After cooling, peeling on an Instron tester showed adhesion of ≥ 3 lb./in. width and greater than the breaking strength of the film. Solid or liquid oxidizing agents, flame, hot roll, hot plate, continuous or batch treatments can be used. Overheating and charring of the polymer must be avoided. After treatment, various com. adhesives, e.g. rubber, acrylate, or silicone based, are satisfactory, and adhesion is obtained to glass, cellulosic structures, or plastics. Cf. following abstract

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ACCESSION NUMBER: 1962:50787 CAPLUS

DOCUMENT NUMBER: 56:50787 ORIGINAL REFERENCE NO.: 56:9615a-b

TITLE: Polyalkene film with hydrophilic surface

INVENTOR(S): De Keyser, Lodewijk F. PATENT ASSIGNEE(S): Gevaert Photo-Producten N. V. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

PATENT INFORMATION:

AUTHOR(S):

PATENT NO. KIND DATE APPLICATION NO. DATE

BE 580570 19591102 BE DE 1188436 DE

PRIORITY APPLN. INFO.: GB 19580714

The surface of polyalkene films, such as polypropene film, is rendered hydrophilic by hot treatment with oxidizing agents, such as K2Cr2O7 or CrO3, in H2SO4, rinsing and applying a layer or printing on it before the film is completely dry. The presence of organic acids such as HOAc during the oxidation enhances the adhesive power of the surface treated. Drying can be done with EtOH. A polypropene film treated with K2Cr2O7 and provided with a gelatin substratum is treated with a solution composed of 30% colloidal SiO2 140 cc., H2O 100, 1% AuCl3 10, 0.1% SnCl2 10, and EtOH 750. This film is used as receiving material in the Ag halide diffusion-transfer process.

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ACCESSION NUMBER: 1959:10402 CAPLUS DOCUMENT NUMBER: 53:10402

DOCUMENT NUMBER: 53:10402
ORIGINAL REFERENCE NO.: 53:1929c-e

TITLE: Photochemical electron transfer and some related

phenomena in aqueous solutions of reducing ions

containing polymerizable monomers Dainton, F. S.; James, D. G. L.

CORPORATE SOURCE: Univ. Leeds, UK

SOURCE: Transactions of the Faraday Society (1958), 54, 649-63

CODEN: TFSOA4; ISSN: 0014-7672

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB cf. C.A. 49, 15392d. Visible and ultraviolet absorption spectra were determined for aqueous solns. of a range of cationic and anionic species and also mixts. with vinyl compds. The oxidation-reduction potential was determined in various noncomplexing acid media in the presence and absence of one or more monomeric water soluble vinyl compds., where necessary under conditions of rigorous deaeration. The min. value of the quantum necessary for the reaction (I), Mz+.H2O + hv → M(z+1)+ + OH - + H, increased linearly with ionization potential. A small ionization potential made M2+aq more effective as a reducing agent for polymer radicals and O and M(z+1)+aq less effective as an oxidizing agent for polymer radicals. Acrylonitrile complexed strongly with V++,

displacing the electron transfer spectrum .apprx. 500 A. to shorter wave lengths, and slightly with Fe++ and Co++; acrylates formed no complexes. When M(z+1)+ was capable of photoreduction, a photostationary state was established balancing reaction I. O formed a reduction activation system with V++, V+++, and Mo+++.

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ACCESSION NUMBER: 1956:75946 CAPLUS

DOCUMENT NUMBER: 50:75946 ORIGINAL REFERENCE NO.: 50:14266d

TITLE: Purification of fluorine-containing polymers

INVENTOR(S): Barnhart, Wm. S.; Mantell, Russell M.

PATENT ASSIGNEE(S): M. W. Kellogg Co.

DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
US 2751376 19560619 US

AB The effectiveness of acids in purifying F-containing polymers is enhanced by the presence of a strong oxidizing agent and small amts. of water. Thus, 40 g. poly(trifluorochloroethylene), refluxed with 190 ml. AcOH, 10 g. H2O, and 10 g. CrO3 for 48 hrs. degraded from a viscosity of 0.69 to 0.62 in 24 hrs. at 275°. Cf. preceding abstract

Ll ANSWER 84 OF 84 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1953:50238 CAPLUS

DOCUMENT NUMBER: 47:50238

CORPORATE SOURCE:

ORIGINAL REFERENCE NO.: 47:8472g-i,8473a-g

TITLE: Electron-exchange polymers. IV. Countercurrent

applications

AUTHOR(S): Cassidy, Harold G.; Ezrin, Myer; Updegraff, Ivor H.

Yale Univ.

SOURCE: Journal of the American Chemical Society (1953), 75,

1615-17

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

Unavailable Polymers of III alone, with PhCMe:CH2, and with PhCH:CH2 cross-linked with divinylbenzene can be used to effect reduction. The polymer becomes oxidized in the process and then becomes capable of acting as an oxidizing agent. This was shown by impregnating filter-paper disks with polymeric III and applying the reagents by the technique of radial chromatography, and also on columns, in which V was supported on filter aid, by percolating the solution of the substance to be oxidized or reduced. These reductor or oxidizer columns have the advantage that they do not contaminate the reagent solns. except for the effect on the H+ concentration Since the linear polymers must preferably be supported on a carrier to make the reactive groups accessible, the polymer was dissolved in a min. amount of 90% AcOH, and for qual. work filter paper, and for quant. work diatomaceous earth, was impregnated with the solution Thus, 46 mg. poly-III was dissolved in about 1.5 cc. 90% AcOH and 4 5.5-cm. disks of Whatman Number 1 filter paper were soaked with the solution consuming about 3/4 of the solution; thus each disk contained about 0.12 meq. of polymer, or about 0.006 meq./sq. cm. A dry disk was placed between 2 glass plates (the upper one having a small hole at the center for introducing the reagents), a few drops aqueous 0.05N FeCl3 were run into the paper, the resulting orange zone of oxidized polymer was washed free from the reagent with a few drops N H2SO4, the top plate removed, and the paper streaked with ferricyanide, 1-nitroso-2-naphthol, and 2, 2'-bipyridine; this showed that all the ferric ion was reduced to ferrous ion. Fresh ferricyanide solution in a pH 6.6 phosphate buffer was introduced similarly into a paper disk, and the resulting pink zone (3 cm. diameter) washed with buffer until the zone was 6 cm. in diameter and streaked with AgNO3, ferric, ferrous, and cupric ion; this showed reduction to ferrocyanide. A small drop of iodine in aqueous KI at pH 6.4 or 7 was placed on the paper, and the brownish black zone was washed with fresh buffer until the color disappeared; at this point the paper did not give a test for free iodine; a similar paper did not show any reaction with N H2SO4, but when a drop of dilute KI in N H2SO4 was run into the paper, the iodide was immediately oxidized to iodine by the oxidized polymer. V (14.945 mg.) was dissolved in 3 cc. 90% AcOH, the solution mixed with 250 mg. filter-aid (previously exhaustively extracted with petr. ether, dried, and ignited), the slurry poured with stirring into 30 cc. H2O, mixed with addnl. 250 mg. filter-aid, and poured into a tube (1.3 cm. diameter) on a 0.5 g. filter-aid, and the column bathed overnight in KI-HCl solution to give a pale pink column containing 0.117 meq. oxidation-reduction capacity. The column was washed with 1 cc. H2O, then 1 cc. pH 7.8 phosphate buffer and treated with a mixture of 10 cc. 0.0155N iodine in KI and 10 cc. buffer and washed with 1 + 5 + 3 cc. H2O; iodine reduced was 0.122 meq. The column was then treated with 5 cc. 5% aqueous KI + 5 cc. 8N HCl and washed with 1 cc. H2O and then 9 cc. 0.1N HCl to produce 0.117 meq. iodine. The column was then put through the same cycle to reduce 0.105 meq. iodine and then produce 0.098 meq. The column was then washed with 20 cc. 0.1N HCl to remove all traces of iodine and iodide, treated with 10 cc. 0.0179N K2Cr2O7 + 2 cc. 8N HCl, and treated with 5 + 5 cc. 0.1N HCl; 0.106 meq. dichromate was reduced. The oxidized column was then treated with KI-HCl to produce 0.122 meq. iodine, kept 2.5 days under acid KI, treated without washing with 0.0179N K2Cr3O7 + an equal volume 0.1N HCl, and the thus oxidized column treated with 136.0 mg. Fe(NH4)2(SO4)2.6H2O in 10 cc. 0.1N HCl to oxidize only 0.019 meq. ferrous ion. The column with this slight degree of reduction showed no detectable reducing action on a solution of 0.0537N ferric ion in an equal volume 5.5N HCl. After all the ferric ion had been washed from the column with 5 + 5 cc. 0.1N HCl, it was treated with 10 cc. 5% aqueous KI + 10 cc. 0.1N HCl to

produce 0.019 meq. iodine; treated then with iodine in pH 7.8 buffer, it used only 0.028 meq., and a recycle with acid KI produced 0.032 meq. iodine. A similar exchanger column with 19.115 mg. III-styrene-divinylbenzene cross-linked polymer treated with acid KI produced 0.0015 meq. iodine; the column treated with 10 cc. 0.0153N iodine in 10 cc. pH 7.8 buffer reduced 0.127 meq. iodine; since the amount polymer taken for the preparation of the column was equivalent to 0.159 meq., about 80% of the groups were available; when the column was treated with acid KI, with use of slight pressure to accelerate the flow about 10-fold, only 0.019 meq. iodine was produced. A column made up under the same conditions as that with V with 15.65 mg. p-C6H4(OH)2 and treated with iodine at pH 7.8 reduced only 0.005 meq. and, when subsequently treated with acid KI, showed only 0.001 meq. quinone.

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